

EXHIBIT F

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UNITED STATES DISTRICT COURT

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NORTHERN DISTRICT OF CALIFORNIA

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SAN FRANCISCO DIVISION

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ORACLE AMERICA, INC.,)

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Plaintiff,)

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VS.)

No. CV 10-03561 WHA

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GOOGLE, INC.,)

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Defendant.)

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CONFIDENTIAL TESTIMONY - ATTORNEYS' EYES ONLY

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VIDEOTAPED DEPOSITION OF JAMES KEARL

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MONDAY, MARCH 26, 2012

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Videotaped Deposition of JAMES KEARL, taken on behalf of Plaintiff, at Kecker & Van Nest, 633 Battery Street, San Francisco, California, commencing at 9:37 a.m., Monday, March 26, 2012 before Kelli Combs, CSR 7705.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	<p>FOR THE WITNESS: FARELLA BRAUN & MARTEL BY: JOHN L. COOPER, ESQ. ALYSON FRANCO 235 Montgomery Street San Francisco, California 94104 (415) 954-4400</p> <p>Also Present: Philip Knolls, Videographer Andrew Tenkin, In-house counsel for Oracle Greg Adams with Charles River Associates</p>
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	<p>APPEARANCE OF COUNSEL:</p> <p>FOR PLAINTIFF ORACLE AMERICA, INC.: BOIES, SCHILLER & FLEXNER, LLP BY: FRED NORTON, ESQ. STEVEN C. HOLTZMAN, ESQ. 1999 Harrison Street, Suite 900 Oakland, California 94612 (510) 874-1000 fnorton@bsflp.com</p> <p>FOR DEFENDANT GOOGLE, INC.: KEKER & VAN NEST, LLP BY: DANIEL PURCELL, ESQ. 633 Battery Street San Francisco, California 94111-1809 (415) 733-6697 dpurcell@kkvn.com</p>	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	<p>JAMES KEARL, after having been duly sworn, testified as follows: ---o0o---</p> <p>THE VIDEOGRAPHER: Good morning, Counsel. 09:03:25 My name is Philip Knowles, of Veritext National Deposition and Litigation Services. The date today is March 26th, 2012, and the time is approximately 9:03 a.m.</p> <p>This deposition is being held in the 09:03:39 office of Kecker and Van Nest, located at 633 Battery Street, on the fourth floor, in the City of San Francisco, California 94111.</p> <p>The caption of this case is Oracle America versus Google, Inc., in the United States District 09:03:54 Court for the Northern District of California, San Francisco Division. The name of the witness is James Kearl.</p> <p>At this time, the attorneys will identify themselves and the parties they represent. 09:04:07</p> <p>MR. NORTON: Fred Norton, on behalf of Oracle America.</p> <p>MR. HOLTZMAN: Steve Holtzman, for Oracle America.</p> <p>MR. COOPER: John Cooper, Farella, Braun & 09:04:20</p>

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1 Martel. I represent Dr. Kearl. 09:04:21	1 MR. NORTON: Then 578. 09:06:52
2 MR. TENKIN: Andrew Tenkin, Oracle	2 (Deposition Exhibit 578 marked
3 America.	3 for identification.)
4 MR. PURCELL: Dan Purcell, Keker & Van	4 BY MR. NORTON:
5 Nest. I represent Google. 09:04:29	5 Q And the way I organized these may be a 09:07:44
6 MR. ADAMS: Gregory Adams, with CRA	6 little differently from how you had them, but
7 International.	7 Exhibit 576 should be your report. Exhibit 577
8 THE VIDEOGRAPHER: Our court reporter,	8 should be the tables to your -- the appendices to
9 Kelli Combs of Veritext, will swear in the witness.	9 your report. And 578 should be the tables; is that
10 (Deponent sworn.) 09:04:41	10 correct? 09:08:02
11 THE VIDEOGRAPHER: You may proceed.	11 A That's correct.
12 MR. COOPER: Counsel, at the outset, as I	12 Q Okay.
13 indicated prior to the beginning of the deposition,	13 Now, other than the change that you
14 Dr. Kearl has a correction he would like to make to	14 described to Paragraph 86 of your report, do you
15 Paragraph 86 of -- 09:05:00	15 have any other changes to the report that you want 09:08:15
16 He'd like to make a correction to	16 to make?
17 Paragraph 86 of his report.	17 A No.
18 MR. NORTON: Please, go ahead.	18 Q Can you just describe for me your
19 THE WITNESS: In Paragraph 86, in order to	19 background in calculating patent damages?
20 get the total value of the deal, I added the value 09:05:17	20 A I've been retained in a number of cases 09:08:27
21 of Sun to the value to Google. That's the	21 either to do reasonable royalty or lost profits
22 denominator. And then divide that into the value of	22 and have filed reports on those matters.
23 the Sun to get an estimate of the portfolio royalty.	23 Q And how many cases have you calculated a
24 I should have netted out, of the part that	24 reasonable royalty for patents?
25 goes into the denominator, the transfer between 09:05:33	25 A Probably seven or eight. You need to 09:08:53
6	8
1 Google and Oracle for the \$20 million payments, 09:05:35	1 clarify what you mean "cases." Would this be 09:08:56
2 upfront payments, and the \$25 million capped	2 formal testimony? It would be less than that, but
3 royalty. The present value of those two numbers is	3 I've worked on matters in which there has been
4 a little less than \$100 million. So the denominator	4 preliminary work done, often settled, in
5 would be slightly smaller and, therefore, the 09:05:51	5 probably -- I don't know -- maybe ten, eight to 09:09:08
6 estimated royalty slightly larger.	6 ten.
7 EXAMINATION	7 Q Then of that eight to ten, how many cases
8 BY MR. NORTON:	8 did you give testimony concerning a reasonable
9 Q All right. Thank you.	9 royalty in a patent case?
10 We'll probably come back to that a little 09:06:08	10 A I think only two. 09:09:20
11 bit later in the morning.	11 Q And those two, did you testify on behalf
12 Why don't we start with the easiest	12 of the plaintiff or the defendant or one of each?
13 question of the day. Would you rather I call you	13 A Both cases was on behalf of the
14 Professor or Dr. Kearl?	14 defendant.
15 A Whatever works for you. 09:06:19	15 Q And have you -- 09:09:34
16 Q I probably will switch back and forth	16 Prior to this case, have you ever been
17 because I won't remember.	17 engaged to calculate a reasonable royalty copyright
18 Why don't we start by marking your report,	18 case?
19 and I'll ask the court reporter, first, to mark	19 A Well, yes. Damages in a very large
20 Exhibit 570 -- I'm sorry -- 576. 09:06:28	20 copyright case, in a couple of cases, yes. 09:09:46
21 (Deposition Exhibit 576 marked	21 Q And did you give testimony concerning the
22 for identification.)	22 value of a license in a copyright case?
23 MR. NORTON: Then 577.	23 A I was deposed in at least one of those
24 (Deposition Exhibit 577 marked	24 cases. It's since disappeared into practice, as
25 for identification.) 09:06:52	25 the lawyers say. I don't recall. I don't think I 09:10:06
7	9

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<p>1 gave testimony in the other case. 09:10:10</p> <p>2 Q And in the copyright case in which you</p> <p>3 gave testimony, did you testify on behalf of the</p> <p>4 plaintiff or on behalf of the defendant?</p> <p>5 A The defendant. 09:10:18</p> <p>6 Q What was the nature of the product in the</p> <p>7 copyright case in which you gave testimony on a</p> <p>8 reasonable royalty?</p> <p>9 A Software.</p> <p>10 Q And the two patent cases in which you gave 09:10:30</p> <p>11 testimony on behalf of the defendants concerning a</p> <p>12 reasonable royalty, what was the nature of the</p> <p>13 products in those cases?</p> <p>14 A They were both medical devices.</p> <p>15 Q In the copyright case that involved 09:10:47</p> <p>16 software, what kind of software was that?</p> <p>17 A UNIX software.</p> <p>18 Q Do you recall the name of that case?</p> <p>19 A Yes, it's IBM versus SCO or SCO versus</p> <p>20 IBM. 09:11:02</p> <p>21 Q If you could just describe for me what you</p> <p>22 understand your task in this particular case to be?</p> <p>23 A I was retained by the Court, as I</p> <p>24 understand the matter, to originally critique the</p> <p>25 experts of each side. And then when the trial was 09:11:20</p> <p style="text-align: right;">10</p>	<p>1 for the copyrights in suit? 09:12:54</p> <p>2 A Correct.</p> <p>3 Q And to calculate infringer's profits for</p> <p>4 copyrights in suit?</p> <p>5 A Correct. 09:12:59</p> <p>6 Q And lost profits for those copyrights?</p> <p>7 A Correct.</p> <p>8 Q And for each of those measures of damage,</p> <p>9 have you reached an independent opinion as to what</p> <p>10 the damages are in this case? 09:13:07</p> <p>11 A Within the confines of Judge Alsup's</p> <p>12 orders, yes.</p> <p>13 Q In order to reach your opinions, did you</p> <p>14 limit yourself to the documents --</p> <p>15 With respect to documents, did you limit 09:13:27</p> <p>16 yourself to the documents that were cited by the</p> <p>17 parties' experts in their reports?</p> <p>18 A Mostly, but as you'll note in the</p> <p>19 footnotes, there are some documents that we went</p> <p>20 out and got that we judged to be relevant to this 09:13:43</p> <p>21 case.</p> <p>22 Q When you mention documents that you went</p> <p>23 out and got, are you referring to literature and</p> <p>24 things in the public record?</p> <p>25 A Yes. 09:13:58</p> <p style="text-align: right;">12</p>
<p>1 delayed, Judge Alsup asked if I could come up with 09:11:24</p> <p>2 an independent damages estimate. My response was</p> <p>3 I could within the confines of the record. That</p> <p>4 is, I couldn't go out and do independent research</p> <p>5 beyond literature research. So I think it's fair 09:11:41</p> <p>6 to say that it's morphed over time from at least</p> <p>7 what it appeared to be last fall, as the trial has</p> <p>8 been delayed.</p> <p>9 Q But is it fair to say that, ultimately,</p> <p>10 your task included the job of coming up with an 09:11:55</p> <p>11 independent opinion as to the reasonable royalty of</p> <p>12 the patents-in-suit in this case?</p> <p>13 A Right, but within some fairly tight</p> <p>14 constraints. It's my understanding that Judge</p> <p>15 Alsup ruled that I would not be allowed to opine 09:12:09</p> <p>16 on matters that he had precluded experts on either</p> <p>17 side from testifying about, so it's not a sort of</p> <p>18 go anywhere effort. It's within the confines of</p> <p>19 his orders over the last three months.</p> <p>20 Q But with that understanding, it would be 09:12:39</p> <p>21 fair to say that your task included the job of</p> <p>22 calculating a reasonable royalty for the</p> <p>23 patents-in-suit in this case?</p> <p>24 A Yes.</p> <p>25 Q And also to calculate a reasonable royalty 09:12:50</p> <p style="text-align: right;">11</p>	<p>1 Q So to the extent you rely on documents 09:13:59</p> <p>2 produced by the parties, did you limit yourself to</p> <p>3 documents that were cited in one of the expert's</p> <p>4 reports?</p> <p>5 A Yes. 09:14:09</p> <p>6 Q Did you review deposition testimony of</p> <p>7 witnesses in this case?</p> <p>8 A I have.</p> <p>9 Q Did you limit yourself to deposition</p> <p>10 testimony that was cited by one of the experts in 09:14:19</p> <p>11 the case?</p> <p>12 A No.</p> <p>13 Q So you reviewed deposition testimony that</p> <p>14 had not necessarily been cited by any expert?</p> <p>15 A That's correct. 09:14:30</p> <p>16 Q And did you have access to all of the</p> <p>17 deposition transcripts in the case?</p> <p>18 MR. COOPER: Objection; calls for</p> <p>19 speculation.</p> <p>20 THE WITNESS: Yeah, I think so, but I'm 09:14:43</p> <p>21 not sure because we don't have a listing of all of</p> <p>22 the depositions that were taken.</p> <p>23 BY MR. NORTON:</p> <p>24 Q Are you aware of any depositions for which</p> <p>25 you -- any depositions that were taken for which you 09:14:52</p> <p style="text-align: right;">13</p>

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<p>1 did not receive a transcript? 09:14:56</p> <p>2 A No.</p> <p>3 Q Now, have you conducted any interviews</p> <p>4 with any employees of any party?</p> <p>5 A Let me clarify. I assume that retained 09:15:17</p> <p>6 experts are not defined as employees of the</p> <p>7 parties.</p> <p>8 Q I meant to carve those out. Let me ask it</p> <p>9 a little bit differently.</p> <p>10 You have spoken with each of the parties' 09:15:26</p> <p>11 retained damages experts, correct?</p> <p>12 A I have.</p> <p>13 Q Some of the parties' retained technical</p> <p>14 experts?</p> <p>15 A I have. 09:15:33</p> <p>16 Q Other than the parties' retained technical</p> <p>17 experts and retained damages experts, have you</p> <p>18 spoken to any employee of any party?</p> <p>19 A No.</p> <p>20 Q To the extent that either Professor 09:15:44</p> <p>21 Cockburn or Dr. Leonard or Dr. Cox relies on</p> <p>22 interviews with employees of a party, have you</p> <p>23 considered those interviews?</p> <p>24 A To the degree that they're reflected in</p> <p>25 the reports, and then there were subsequent 09:16:06</p> <p style="text-align: right;">14</p>	<p>1 Now, did you understand in the course of 09:17:31</p> <p>2 your task, that you were permitted to come up with</p> <p>3 any methodology you chose to best calculate a</p> <p>4 reasonable royalty for the patents-in-suit?</p> <p>5 A I interpreted Judge Alsup's instruction 09:17:48</p> <p>6 to me that I was to derive an independent estimate</p> <p>7 as allowing for that, yes, subject, as I said now</p> <p>8 a couple of times, to his subsequent orders</p> <p>9 limiting the other experts on the case.</p> <p>10 Q And so with respect to the reasonable 09:18:09</p> <p>11 royalty methodology -- reasonable royalty</p> <p>12 methodology in this case, have you reached an</p> <p>13 opinion as to what the best way is to calculate a</p> <p>14 reasonable royalty for the patents and copyrights in</p> <p>15 suit? 09:18:22</p> <p>16 A I have.</p> <p>17 Q Okay.</p> <p>18 And --</p> <p>19 A Let me back up. I've come up with a</p> <p>20 methodology for estimate -- for the best way to 09:18:30</p> <p>21 estimate the reasonable royalty on the portfolio</p> <p>22 that the parties were discussing in 2006. The</p> <p>23 allocation of that portfolio royalty to the</p> <p>24 patents and copyrights in suit is constrained by</p> <p>25 Judge Alsup's orders. 09:18:50</p> <p style="text-align: right;">16</p>
<p>1 depositions of the people that they may have 09:16:09</p> <p>2 interviewed, yes.</p> <p>3 Q To the extent that the expert --</p> <p>4 To the extent that Dr. Cox relied on</p> <p>5 interviews of people, or a person who was not 09:16:19</p> <p>6 subsequently interviewed, at some point deposed, did</p> <p>7 you rely on those interviews?</p> <p>8 A Again, only to the degree that he</p> <p>9 reflects those interviews in his own reports.</p> <p>10 Q Is there anything that you did to assess 09:16:38</p> <p>11 the accuracy of the statements that were relayed to</p> <p>12 Dr. Cox by the people he interviewed?</p> <p>13 A No.</p> <p>14 Q In the course of reaching your opinions,</p> <p>15 did you make any assumptions? 09:16:58</p> <p>16 A Yes.</p> <p>17 Q Is it possible for you to tell me what</p> <p>18 your primary assumptions are?</p> <p>19 A I think a fair answer to that is that</p> <p>20 they are reflected in the report. We've been -- 09:17:13</p> <p>21 tried to be very clear about when I've made an</p> <p>22 assumption. And without walking through the</p> <p>23 report, I'm not sure I can give a fair answer to</p> <p>24 that question.</p> <p>25 Q That's fair. Thank you. 09:17:22</p> <p style="text-align: right;">15</p>	<p>1 Q Let me break that down a little bit. 09:18:54</p> <p>2 So with respect to calculating a royalty</p> <p>3 on the portfolio that the parties were discussing in</p> <p>4 2006, you have come up with what you believe is the</p> <p>5 best way to calculate that royalty; is that correct? 09:19:06</p> <p>6 A Correct.</p> <p>7 Q Sorry. I didn't mean to speak over you.</p> <p>8 And I know it's in the report, but in</p> <p>9 brief form, what is the best way to calculate that</p> <p>10 royalty? 09:19:20</p> <p>11 A Has really three parts: One is to begin</p> <p>12 with the assumption that the parties would have</p> <p>13 negotiated either a percentage of revenue or a per</p> <p>14 handset royalty in 2006; that that would then be</p> <p>15 applied to actual Google revenues going forward; 09:19:46</p> <p>16 and then to focus on the estimation of that per</p> <p>17 unit or percentage royalty by looking at the</p> <p>18 expectations of both parties in 2006 and how they</p> <p>19 valued the 2006 deal, backing out from the deal</p> <p>20 the things that were not associated with the 09:20:14</p> <p>21 intellectual property.</p> <p>22 Q That allows you to calculate a per handset</p> <p>23 or per revenue dollar royalty rate?</p> <p>24 A Correct.</p> <p>25 Q You said that -- 09:20:31</p> <p style="text-align: right;">17</p>

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<p>1 Well, with respect to apportioning that 09:20:33</p> <p>2 2006 royalty rate, have you come up with what you</p> <p>3 believe is the best methodology for apportioning to</p> <p>4 the intellectual property in suit?</p> <p>5 A I don't think that's what I testified 09:20:56</p> <p>6 to. What I said was after -- after the --</p> <p>7 determining the reasonable royalty on the</p> <p>8 portfolio, then the apportionment is really</p> <p>9 constrained by Judge Alsup's orders. And I</p> <p>10 adopted the group and value methodology of 09:21:10</p> <p>11 Professor Cockburn, but I'm not opining on whether</p> <p>12 that's the best methodology for doing this.</p> <p>13 Q When you say, "whether that's the best</p> <p>14 methodology for doing this," what is "this"?</p> <p>15 A Apportioning. 09:21:27</p> <p>16 Q Did you consider other ways of</p> <p>17 apportioning?</p> <p>18 A Over the course of the last six months,</p> <p>19 yes, a number of different ways.</p> <p>20 Q Did you identify any means of apportioning 09:21:39</p> <p>21 that is better than Professor Cockburn's group and</p> <p>22 value approach, as permitted by Judge Alsup's</p> <p>23 orders?</p> <p>24 A No.</p> <p>25 Q When I ask you "better," I mean, better in 09:21:57</p> <p style="text-align: right;">18</p>	<p>1 BY MR. NORTON:</p> <p>2 Q So an approach that looks at the change in</p> <p>3 market share of Android as a result of the</p> <p>4 infringement?</p> <p>5 A Yes. 09:23:52</p> <p>6 Q And uses that to apportion?</p> <p>7 A Yes.</p> <p>8 Q Did you reach an opinion as to whether</p> <p>9 that approach was, as a matter of economics, was</p> <p>10 better or worse than the group and value approach? 09:24:03</p> <p>11 A Both approaches have some problems, and</p> <p>12 I think both approaches have some strengths, so</p> <p>13 there is not -- it's not an easy call, which is</p> <p>14 which one dominates the other.</p> <p>15 Q Did you conduct an analysis, an 09:24:21</p> <p>16 apportionment analysis, using the changes in market</p> <p>17 share?</p> <p>18 A Yes.</p> <p>19 Q Is that analysis in your report?</p> <p>20 A No. 09:24:35</p> <p>21 Q Is it excluded from your report because of</p> <p>22 your understanding of Judge Alsup's orders?</p> <p>23 A That's correct.</p> <p>24 Q When you conducted an analysis using the</p> <p>25 changes in market shares, did you get to the point 09:24:46</p> <p style="text-align: right;">20</p>
<p>1 your estimation as an economist. 09:21:59</p> <p>2 A No.</p> <p>3 Q Are there other methods that you</p> <p>4 considered to be reasonable methods of apportioning,</p> <p>5 although perhaps not as good as the group and value 09:22:25</p> <p>6 approach permitted by Judge Alsup?</p> <p>7 MR. COOPER: Objection as to form.</p> <p>8 THE WITNESS: Let me ask a clarifying</p> <p>9 question --</p> <p>10 BY MR. NORTON:</p> <p>11 Q Of course.</p> <p>12 A -- of both attorneys.</p> <p>13 Am I permitted to talk about things that</p> <p>14 Judge Alsup has excluded in answer to that</p> <p>15 question? 09:23:15</p> <p>16 MR. PURCELL: I think so.</p> <p>17 MR. NORTON: I agree with Mr. Purcell.</p> <p>18 MR. PURCELL: This is just a deposition.</p> <p>19 Your testimony at trial might be limited, but I</p> <p>20 think you can answer. 09:23:28</p> <p>21 THE WITNESS: Fair enough. Then I think</p> <p>22 the approach that looks at the change in market</p> <p>23 share, predicted change in market share, was a good</p> <p>24 approach, an interesting approach.</p> <p>25</p> <p style="text-align: right;">19</p>	<p>1 where you actually calculated a per unit royalty? 09:24:48</p> <p>2 A We may have.</p> <p>3 Q Did you get to the point where you</p> <p>4 calculated a royalty as a percentage of Google</p> <p>5 advertising revenues? 09:25:07</p> <p>6 A Yes.</p> <p>7 Q Under that analysis using the change in</p> <p>8 market shares, what royalty rate did you calculate</p> <p>9 as a percentage of Google advertising revenues?</p> <p>10 A I don't recall at this point. 09:25:23</p> <p>11 Q Was it greater than or less than the</p> <p>12 royalty rate that you calculated using the group and</p> <p>13 value approach?</p> <p>14 A Greater, but not a lot.</p> <p>15 Q Can you put any order of magnitude on "not 09:25:36</p> <p>16 a lot"?</p> <p>17 A Well, I need to preface this by saying</p> <p>18 that we did some preliminary work. It did not go</p> <p>19 through the kind of vetting that the final report</p> <p>20 has, so as long as it's understood that this is -- 09:26:11</p> <p>21 that we didn't complete the work because we were</p> <p>22 instructed not to complete the work, it probably</p> <p>23 would have been -- I don't know -- maybe twice as</p> <p>24 high, in the 2 or 3 percent range, as opposed to</p> <p>25 the under-2 percent range. It may have been as 09:26:25</p> <p style="text-align: right;">21</p>

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1 much as 50 to 80 percent higher than the fairly 09:26:32	1 their phones. 09:29:39
2 low royalties.	2 For example, you could imagine that the
3 Q Were there any other apportionment	3 way that Google could have offset the market share
4 analyses that you began to use, but stopped because	4 effect would be to provide a subsidy to the phones
5 of orders by Judge Alsup? 09:26:49	5 equal to the -- sort of the amount that they would 09:29:51
6 A We worked at estimating this the same	6 have lost because of the reduced functionality.
7 way -- we've sort of tracked the experts here,	7 It's just unclear because if you think of these as
8 which is my job. And so in Professor Cockburn's	8 independent OEMs, and you think kind of a
9 first report -- or second report, sorry, not his	9 competitive market here in which the handsets
10 first report, but his second report. 09:27:11	10 themselves are priced at roughly equal to the cost 09:30:07
11 Q So you used the method --	11 of the equipment and stuff in the handsets, then it
12 You performed an analysis using the method	12 doesn't make a lot of sense to argue the adjudgment
13 that Professor Cockburn used to apportion in his	13 would have been in the price.
14 September 2011 report?	14 Q Okay.
15 A Yeah, we explored that method, parts of 09:27:23	15 So did you reach a conclusion as an 09:30:24
16 that method, sure.	16 economist as to whether an approach using the change
17 Q In exploring that method, did you reach a	17 in market shares would have been economically sound?
18 conclusion as to what you believe the royalty rate	18 A With the caveats I've just given, yes,
19 would be if that were a permissible method?	19 but it would have required a careful analysis
20 A It would have been what I just told you 09:27:38	20 of -- of what would have happened as the 09:30:46
21 a few minutes ago. It would have been roughly	21 functionality of the phones decreased and what
22 twice the current -- I need to be very cautious	22 part of that would have been reflected in market
23 here because I don't have the numbers in front of	23 share and what part of it would have been
24 me, and I didn't write the numbers down, but my	24 reflected in perhaps the direct subsidy to Google.
25 vague recollection is they would be roughly twice 09:27:48	25 I mean, Google presumably cares about 09:31:03
22	24
1 the size of the current royalties, maybe not quite 09:27:49	1 market share, but it also cares about its 09:31:05
2 that large.	2 advertising revenues on these phones. So if you
3 Q Now, with respect to the -- the change in	3 netted out a subsidy they had to pay, that would
4 market share approach that you considered that you	4 have reduced their -- their -- their net revenues,
5 did not include in your final report, did you reach 09:28:14	5 which would have mattered to them as well. 09:31:15
6 an opinion as an economist as to whether that	6 Let me put it a slightly different way.
7 approach would be sound as a matter of economics?	7 Even if you don't have the same market share --
8 A It requires some additional work that I	8 even if the market share doesn't change by the full
9 think Professor Cockburn didn't do. The -- as I	9 amount predicted by Professor Cockburn, it's
10 understand, that approach was excluded by Judge 09:28:41	10 partially offset, but it's offset by subsidies to 09:31:31
11 Alsup on an argument that when the predicted	11 Google. Then Google's revenues from the handsets
12 willingness to pay was compared to the price, the	12 goes down, in part, because of the market share
13 price of the phone was not allowed to move, that	13 and, in part, because it has to offset the problems
14 this was Dr. Leonard's principal criticism. It's	14 that the OEMs have in selling their phones. That
15 my understanding that was at the heart of why 09:29:01	15 was not explored carefully by Professor Cockburn. 09:31:49
16 Judge Alsup excluded that.	16 I did not explore it. So short of exploring that,
17 It's hard to believe these phones' prices	17 you know, there is not much that can be said there,
18 would have gone down. Google didn't control the	18 except that it was an appropriate methodology if
19 price. So it is a reasonable assumption that the	19 that hole could have been filled.
20 price of the Android phones would not have changed, 09:29:18	20 Q All right. Thank you. 09:32:06
21 and this would have been mostly a market share, a	21 Now, with respect to the copyright
22 functionality would have affected market share, but	22 reasonable royalty, is there any difference in your
23 that required some additional stable work by	23 approach to calculating a reasonable royalty for
24 Professor Cockburn, having to do with the Google's	24 copyright and a reasonable royalty for patents?
25 relationships with the OEMs and how the OEMs price 09:29:35	25 A No. And here I need to be very 09:32:24
23	25

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<p>1 cautious. I'm not a lawyer, obviously. It's my 09:32:26 2 understanding that there is not really a 3 reasonable royalty on a -- on copyrights. A 4 different term is used, but all of the experts in 5 this case have used a reasonable royalty approach 09:32:39 6 to deriving the -- the -- what would have been the 7 foregone revenues on the -- on the copyrights, and 8 I have adopted that approach. 9 Q To the extent that -- 10 To the extent that damages in a copyright 09:32:56 11 case can be measured by a hypothetical license that 12 would have been negotiated between the parties at 13 the time that infringement began, and to the extent 14 that in a patent case, damages could be calculated 15 by calculating a hypothetical license that would 09:33:14 16 have been negotiated by the parties at the time the 17 infringement began, is there any economic reason to 18 approach those two measurements any differently? 19 A Yes. The patents have a known life. 20 And it's my understanding that the copyrights have 09:33:31 21 a known life, but it's much longer. I don't know 22 what the life is, but it's a much longer period of 23 time. So presumably, if you were able to think 24 about these negotiations as separate on the two 25 different forms of intellectual property, they 09:33:49</p> <p style="text-align: right;">26</p>	<p>1 factors to calculate a reasonable royalty in a 09:34:58 2 patent case, does that make good economic sense? 3 A You're asking me to opine on the Georgia 4 Pacific factors? 5 Q A good -- an economically sensible way to 09:35:10 6 calculate a royalty in a patent case? 7 A Well, if you mean a -- a -- a 8 negotiation, a hypothetical negotiation, the 9 answer is in some cases yes, in some cases no. 10 I've opined in my report this makes sense 09:35:24 11 for a portfolio, doesn't really make sense for the 12 individual patents. But I think the Georgia 13 Pacific factors are -- don't have a lot of weight 14 among economists. I don't think this is -- this is 15 not the approach that an economist would take to 09:35:47 16 thinking about these matters. And you know, sort 17 of there is a constraint here that economists have 18 to pour themselves into. And so if you read these 19 reports, including the experts in this case, the 20 Georgia Pacific factors are a set of, we've got to 09:36:00 21 do this; let's just check off the list. They don't 22 seriously inform the analysis. 23 In defense of my report, I took them 24 seriously because they provided, as you know since 25 you have read it, a place to critique the experts, 09:36:21</p> <p style="text-align: right;">28</p>
<p>1 might take a slightly different character because 09:33:52 2 of the -- because of the lifetime, expected life 3 of that. 4 And, you know, you have invited me to 5 speculate a little bit here, so I will. It's 09:34:04 6 conceivable that the kind of noninfringing 7 substitutes could be different for patents than for 8 copyrights. 9 Q Okay. 10 You're familiar with the Georgia Pacific 09:34:16 11 factors? 12 A I am. 13 Q All right. 14 In the two observations that you just made 15 that might be different between copyrights and 09:34:22 16 patents, would those potential differences be 17 addressed by application of the Georgia Pacific 18 factors? 19 A I'm not quite sure how to answer. It's 20 my understanding the Georgia Pacific factors apply 09:34:39 21 to the reasonable royalty for patents and not for 22 copyrights, but I'm happy to be informed if I've 23 got that wrong. 24 Q Well, is there -- 25 Is application of the Georgia Pacific 09:34:57</p> <p style="text-align: right;">27</p>	<p>1 which was part of my assignment. And so they 09:36:25 2 allowed me an opportunity to address specifically a 3 number of topics the experts brought on. In this 4 case they happened to be useful, but in lots of 5 cases they are not terribly useful. 09:36:38 6 Q So is the approach that you used to 7 calculate a reasonable royalty for patents, is it 8 just as good a method for calculating the 9 hypothetical license for the copyrights in this 10 case? 09:36:49 11 MR. COOPER: From an economic point of 12 view? 13 MR. NORTON: From an economic point of 14 view, yes. 15 THE WITNESS: I think I've answered that 09:36:59 16 question. You know, if you had separate licenses 17 for patents and for copyrights, as opposed to a 18 portfolio of intellectual property, and had 19 negotiations that would inform you about how the 20 parties thought about those two separate things, 09:37:20 21 then I think in principle, given my earlier answer, 22 one could think about the negotiations as being 23 somewhat different between the two. But in this 24 case, we have a single negotiation over an aggregate 25 that includes both the patents and the copyrights, 09:37:34</p> <p style="text-align: right;">29</p>

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<p>1 [REDACTED] [REDACTED] 2 [REDACTED] 3 [REDACTED] 4 Q So when you use an irrevocable or 5 perpetual license in this case, if the license were 09:43:20 6 irrevocable as you treat it in your report, Google 7 would have the rights to the intellectual property 8 for as long as the intellectual property exists; is 9 that right? 10 A Yes, I assume it's for the life of the 09:43:42 11 product, is what these contracts are about. 12 Q But Google would also be required to pay 13 Sun for as long as it was exploiting that 14 intellectual property; is that also correct? 15 A That's correct. 09:43:53 16 Q If you are correct in your conclusion that 17 the license would be a perpetual one, you would 18 also, at the same time, conclude that Google would 19 continue to pay royalties into the future; is that 20 right? 09:44:13 21 A Yes, that's correct. 22 [REDACTED] [REDACTED] [REDACTED] [REDACTED] 44:26 34</p>	<p>1 Google and Sun. 09:45:57 2 A They would have individually had their 3 expectations about the validity and enforceability 4 of the intellectual property. And presumably, 5 that affects the license in that the party 09:46:12 6 licensing, Sun in this case, probably doesn't want 7 those challenged and would rather get the money. 8 And Google doesn't want to spend the time and 9 money to challenge. I assume that's why licenses 10 are taken. So -- so they would have -- they may 09:46:28 11 have had differing expectations, for all I know, 12 but they would not have assumed in those 13 negotiations that the intellectual property was 14 not valid or not enforceable. 15 Q Are you familiar with the term "litigation 09:46:43 16 premium"? 17 A I am. 18 Q What is a litigation premium? 19 A It's -- the litigation creates an 20 uncertain environment -- takes an uncertain 09:46:53 21 environment and creates certainty about certain 22 aspects of that environment, and that movement 23 from uncertainty to certainty has a dollar value. 24 That's the litigation premium. 25 Q So prior to the litigation being brought 09:47:06 36</p>
<p>1 [REDACTED] [REDACTED] 2 [REDACTED] 3 [REDACTED] 4 [REDACTED] 5 Q To the extent that there is a legal 09:44:42 6 requirement to calculate damages through the day of 7 trial, does that have any effect on your approach to 8 the structure of this license? 9 MR. COOPER: Objection; form. 10 THE WITNESS: No. My approach is to 09:45:00 11 estimate the royalty rate. That is the rate that 12 they would have agreed to in 2006, and so to the 13 date of trial it's applied to actual Google 14 revenues. And if asked about going forward by the 15 court, I would simply say you apply the same royalty 09:45:16 16 rate either as a running royalty, or if it's a lump 17 sum, that you have to get reasonable testimony about 18 the expectations of the parties going forward. 19 BY MR. NORTON: 20 Q Now, in the 2006 negotiation, would the 09:45:32 21 parties have necessarily concluded that the 22 intellectual property in that bundle was both valid 23 and to be infringed by Google? 24 A The actual or hypothetical? 25 Q In the actual 2006 negotiations between 09:45:55 35</p>	<p>1 and resolved, there is some uncertainty? 09:47:09 2 A There is. 3 Q And uncertainty about what? 4 A Lots of things. That's a pretty broad 5 question. 09:47:23 6 Q That's fair. 7 Uncertainty with respect to what that 8 bears on the litigation premium? 9 A Well, that's also a broad question, and 10 I address this in the report. There is 09:47:34 11 uncertainty about which of the patents might be 12 needed. If you don't believe there is any 13 uncertainty about that, then the 2006 negotiation 14 was over these patents and the value of it is the 15 value of these patents. 09:47:52 16 So you've got sort of which -- which 17 course through this technology Google is actually 18 going to take. And then if it takes the course 19 through this technology, which patents end up being 20 and copyrights end up being infringed, and then 09:48:10 21 sort of the issue of the validity and the 22 enforceability of those patents and copyrights that 23 happened to have been infringed, all of that is not 24 known in 2006. 25 Q So would the royalty that was negotiated 09:48:27 37</p>

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<p>1 in 2006 reflect a discount because of the 09:48:31 2 uncertainty that existed at that time, in comparison 3 to the state of knowledge after the litigation? 4 A It may have. 5 Q And -- 09:48:44 6 A And as I've indicated in a number of 7 points in my report -- let me back up. 8 It's unclear what "conservative" means 9 into my role, so I'm not -- when I say 10 "conservative," I don't know who I'm supposed to be 09:48:58 11 conservative for, and I've tried not -- but the 12 approach in the end I took -- I took was to say, 13 this is a lower bound, and there are a number of 14 reasons why the actual royalty would be above the 15 number I put forward. It's not an upper bound. 09:49:16 16 So -- and I didn't necessarily try to bias it that 17 way, but it just turns out the way things fall, it 18 appears to be a lower bound, and it would be a 19 lower bound on this argument as well. 20 Q So to the extent that there was 09:49:34 21 uncertainty with respect to validity and 22 infringement with respect to the IP in suit in 2006, 23 one would expect that after the litigation, if the 24 parties had a new negotiation, the royalty rate 25 would be higher than what you have calculated; is 09:49:52</p> <p style="text-align: right;">38</p>	<p>1 litigation premium. 09:51:28 2 BY MR. NORTON: 3 Q I'm sorry. 4 When you say, "there is empirical evidence 5 that there is a positive litigation premium," are 09:51:34 6 you talking about this case? 7 A No, not this case. I'm just talking 8 about the economists who studied this matter have 9 found that there is a positive litigation premium. 10 Q And so in general, one expects there to be 09:51:47 11 a litigation premium? 12 A Yes, based on that empirical work. 13 Q And that empirical work is focused on the 14 issue of uncertainty with respect to validity and 15 infringement; is that right? 09:52:01 16 A I think so. I'd have to go back and 17 look at the study. I just know there is this 18 premium that we're talking about. 19 Q I'm sorry. 20 Now, you have used the term "conservative" 09:52:10 21 in a number of places in your report to describe 22 your methods and conclusions; is that right? 23 A Yes. 24 Q When you use the term "conservative" in 25 your report, by that, you mean that you have 09:52:19</p> <p style="text-align: right;">40</p>
<p>1 that true? 09:49:54 2 A Well, maybe. It's not altogether clear 3 which way this goes. I mean, Sun has uncertainty 4 about which of its patents and copyrights are 5 valid and enforceable, right? And Google has 09:50:07 6 uncertainty about sort of the cost of figuring 7 that out and discovering it. So it's unclear 8 which way that goes, frankly. 9 Q But it is possible, if the parties were to 10 renegotiate a license after determination of 09:50:32 11 infringement and validity in this case with respect 12 to the patents and copyrights in suit, that they 13 would negotiate for a higher royalty rate than the 14 one you have calculated? 15 MR. COOPER: Objection; form. 09:50:45 16 THE WITNESS: That's possible, but I want 17 to emphasize again the point I just made, which is 18 Google may have been willing to pay a small premium 19 in order to -- for the -- for the portfolio, in 20 order to avoid the litigation that could come if it 09:51:07 21 subsequently infringed. 22 So there is -- the uncertainty here cuts a 23 couple of different ways. I don't think it cuts 24 uniformly one way. I am aware, however, I think 25 there is empirical evidence that there is a positive 09:51:23</p> <p style="text-align: right;">39</p>	<p>1 calculated damages that are lower than what might 09:52:22 2 be -- lower than what would be the case if you had 3 perfect information? 4 A For the most part, yes. 5 Q Is there any example where you have used 09:52:34 6 the term "conservative" to describe a methodology or 7 conclusion you have reached that might be too high? 8 A Not that comes readily to mind, but 9 there may be. I don't recall. I think, in 10 general, the estimates I have, you would expect 09:52:51 11 the adjustments to go the other -- go up. 12 Q And so given that, wouldn't it be the case 13 that if the parties were to renegotiate the license 14 after a finding of infringement and validity, that 15 the royalty that they would negotiate would be 09:53:14 16 higher than the one you have calculated? 17 A Well, that goes to an issue that really 18 starts with Professor Cockburn a long time ago 19 about whether or not the Sun Armstrong project 20 expected revenues are a way of thinking about -- 09:53:40 21 about that issue. And if they are, the answer is 22 the royalty that I estimated, for the most part, 23 incorporates that. 24 Q Other than the measure of the anticipated 25 Armstrong revenues, are there approaches you have 09:54:23</p> <p style="text-align: right;">41</p>

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<p>1 used that you believe are conservative in the sense 09:54:32 2 that they tend to understate damages? 3 A Again, I hesitate to -- without going 4 through the report looking item by item, so I -- 5 my answer is not going to be -- exclude those 09:54:56 6 things I may have mentioned in the report. 7 But I'll give you an example. Two 8 examples. One is there is this -- let me back up. 9 Ask a question. Are you talking about the 10 apportioned royalties or the portfolio? 09:55:26 11 Q Let's do it this way -- I don't mean for 12 this to be a memory test, so my question was not 13 intended to list all the ways in which your report 14 may be conservative. 15 Let me do it this way: Turning back to 09:55:42 16 your methodology for calculating the royalty for the 17 entire portfolio. 18 A Yes. 19 Q So on one side, you need to calculate the 20 anticipated benefit to Sun as a result of that 09:55:55 21 transaction? 22 A Correct. 23 Q And so you need to analyze what value Sun 24 expected to receive in 2006? 25 A Correct. 09:56:06</p> <p style="text-align: right;">42</p>	<p>1 Q Right. 09:57:24 2 So in Footnote 27 to your report, you 3 explain that that substitution results in a 4 conservative estimate of the reasonable royalty? 5 A Correct. 09:57:34 6 Q So that's a step that you took that will 7 tend to understate the royalty that Sun would 8 otherwise be entitled to, in this case Oracle, 9 right? 10 A It might. But the -- the -- you 09:57:43 11 can't -- I suppose you can have the parties with 12 two widely differing expectations here, but 13 they're valuing the same economic activity. So in 14 some sense, you have to argue -- have to sort of 15 come to a meeting of the minds about the prospects 09:58:03 16 of this activity. And in that sense, I used 17 Google's more conservative estimates. 18 Q Now, to the extent that Sun expected to 19 earn additional revenues that are not accounted for 20 in the project Armstrong document that you relied 09:58:24 21 upon, will your royalty calculation tend to be too 22 low? 23 MR. COOPER: Objection; form. 24 BY MR. NORTON: 25 Q Let me ask the question a little 09:58:46</p> <p style="text-align: right;">44</p>
<p>1 [REDACTED] 2 [REDACTED] 3 [REDACTED] 4 [REDACTED] 5 [REDACTED] 6 [REDACTED] 7 [REDACTED] 8 [REDACTED] 9 [REDACTED] 10 [REDACTED] 11 [REDACTED] 12 [REDACTED] 13 [REDACTED] 14 [REDACTED] 15 [REDACTED] 16 [REDACTED] 17 [REDACTED] 18 [REDACTED] 19 [REDACTED] 20 [REDACTED] 21 [REDACTED] 22 [REDACTED] 23 [REDACTED] 24 [REDACTED] 25 [REDACTED] 09:57:22</p> <p style="text-align: right;">43</p>	<p>1 differently. 09:58:47 2 If it were the case that in addition to 3 the revenues identified in the project Armstrong 4 document, Sun expected to earn further revenues from 5 provisioning that would be equal to or greater than 09:58:58 6 the projected Armstrong revenues, will the inclusion 7 of those additional expected benefits increase the 8 amount of the revenue -- of the royalty? 9 A Yes. Let me answer more fully in the 10 following way: I described in my report what I 09:59:18 11 call complex negotiations, as opposed to simple 12 negotiations, in which there are various terms the 13 parties are dumping money into. And if you're now 14 telling me that in addition to the upfront, the 15 capped share and project Armstrong, there is a 09:59:33 16 fourth category that money would have been dumped 17 into, then it's possible, sure. 18 Q Well, not just possible. If there were 19 additional revenues that Sun expected to earn that 20 were equal in size to the project Android revenues 09:59:50 21 that you have factored in, that would necessarily 22 increase the amount of the benefit to Sun in your 23 calculation, correct? 24 A It would, but you would have assumed 25 that those would have been reflected at some point 10:00:06</p> <p style="text-align: right;">45</p>

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<p>1 in the negotiation documents. And at least so far 10:00:07 2 as I know, there is nothing like that reflected. 3 There is certainly no hard numbers here. 4 Q Okay. 5 But to the extent -- 10:00:16 6 I didn't mean to cut you off. Were you 7 finished with your answer? 8 A Yeah. 9 Q But to the extent that there is evidence 10 that Sun did have such expectations and that they 10:00:25 11 were quantified in some sense, to accurately 12 calculate the royalty using your method, you should 13 include the net present value of 2006 of those 14 additional benefits; is that right? 15 A Yes, if there is clear evidence that 10:00:40 16 these were part of the way Sun viewed the value of 17 its intellectual property. And the way I've 18 characterized the complex contract is that Sun had 19 in mind a value for which it was willing to 20 license open source -- open source license of its 10:00:57 21 intellectual property and that it intended to 22 monetize that in three different ways. So if 23 you're telling me there is other things out here, 24 well, Sun had other business activities. It was 25 doing lots of things. You can't throw that in 10:01:12</p> <p style="text-align: right;">46</p>	<p>1 point is that this is the net revenue, and you 10:02:25 2 would have to net out whatever costs. So it's 3 conceivable you could have a high revenue 4 activity, but not much contribution to the value 5 of the intellectual property they thought they 10:02:38 6 were negotiating over. 7 Q Sure, because what you're actually 8 calculating is the net present value of 2006 of the 9 expected profits, not revenues? 10 A Correct. 10:02:49 11 Q Okay. 12 And so the salient question would be, were 13 there additional profits that Sun expected to earn 14 directly from its monetization of Android? 15 A Yes. And that envisioned, as part of 10:03:04 16 the compensation, for the bundle of intellectual 17 property in 2006. 18 Q Now, you also make adjustments to the 19 value to Sun by looking at some of the other terms 20 that the parties discussed in 2006; is that right? 10:03:34 21 A You need to be more precise. 22 Q Sure. Okay. 23 So one of the things that you look at 24 is -- 25 And just so we're in the same place, if 10:03:43</p> <p style="text-align: right;">48</p>
<p>1 here. So you'd have to tie this to Sun's ex ante 10:01:14 2 evaluation of the intellectual property that was 3 at the heart of this negotiation. 4 If your question is, there is a tie that 5 shows there is a fourth bundle here, and it was 10:01:28 6 part of what Sun thought of as the value of its 7 intellectual property, then yes. 8 Q Okay. 9 Let me ask a somewhat more precise 10 question. [REDACTED] 11 [REDACTED] 12 [REDACTED] 13 [REDACTED] 14 [REDACTED] 15 [REDACTED] 16 [REDACTED] 17 [REDACTED] 18 [REDACTED] 19 [REDACTED] 20 [REDACTED] 21 [REDACTED] 22 [REDACTED] 23 [REDACTED] 24 [REDACTED] 25 [REDACTED] The 10:02:22</p> <p style="text-align: right;">47</p>	<p>1 you'd turn to Paragraph 73. 10:03:48 2 [REDACTED] 3 [REDACTED] 4 [REDACTED] 5 [REDACTED] 6 [REDACTED] 7 [REDACTED] 8 [REDACTED] 9 [REDACTED] 10 [REDACTED] 11 [REDACTED] 12 [REDACTED] 13 [REDACTED] 14 [REDACTED] 15 [REDACTED] 16 [REDACTED] 17 [REDACTED] 18 [REDACTED] 19 [REDACTED] 20 [REDACTED] 21 [REDACTED] 22 [REDACTED] 23 [REDACTED] 24 [REDACTED] 25 [REDACTED] 10:05:20</p> <p style="text-align: right;">49</p>

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1 have Google promoting the Java brand in the mobile 10:14:46	1 a discount rate? 10:17:21
2 space?	2 A I do.
3 A Probably.	3 Q And the discount rate that you used was
4 Q In connection with Android?	4 15 percent?
5 A Probably. 10:14:51	5 A Yes. 10:17:25
6 Q Is there any way in which it would not be	6 [REDACTED]
7 to the benefit of Sun to have Google promoting Java	7 [REDACTED]
8 in the mobile space?	8 [REDACTED]
9 MR. COOPER: Objection; form.	9 [REDACTED]
10 BY MR. NORTON:	10 [REDACTED] 10:17:33
11 Q You said "probably," and I'm trying to	11 Q All right.
12 figure out what makes it something less than	12 What is the reason to use a discount rate
13 certain.	13 in the first place?
14 A Do you want me to speculate? Is this an	14 A Because the future is uncertain.
15 invitation to speculate? 10:15:22	15 Q All right. 10:17:41
16 Q No. Is there a specific reason, that you	16 A And money is costly.
17 can think of, as to why it would not be valuable to	17 [REDACTED]
18 Sun to have Google promoting Android as Java?	18 [REDACTED]
19 MR. COOPER: Same objection; form.	19 [REDACTED]
20 THE WITNESS: This is really speculation, 10:16:02	20 [REDACTED]
21 but to the degree that project Armstrong was not	21 [REDACTED]
22 successful and that Sun did not gain -- or it's	22 Q The fixed fee payments come over a
23 getting most of its monetization of this	23 three-year period?
24 intellectual property -- so suppose going forward	24 A Correct.
25 it's not successful, then Sun may very well have 10:16:18	25 Q You characterize those as low risk; is 10:18:06
58	60
1 been interested in an alternative or competitive 10:16:25	1 that right? 10:18:07
2 product, in which case, it's not of interest to have	2 A Correct.
3 your competitors saying, "I'm just like the product	3 Q Are they lower risk than the future
4 that just came on the market."	4 revenues?
5 BY MR. NORTON:	5 A Yes. 10:18:15
6 Q And all the evidence that you have seen	6 Q Is it appropriate to apply the same
7 suggests that Sun expected Project Armstrong to be	7 discount rate for the relatively low-risk fixed
8 successful?	8 payments as it is for the future revenues?
9 A Yes.	9 A I think so. I think you want to use a
10 Q Okay. 10:16:42	10 project-specific discount rate. You're arguing 10:18:25
11 So at the time of the 2006 negotiation,	11 for a subproject-specific discount rate. One
12 Sun would have expected that Google's promotion of	12 could do that, but I think typically a firm or a
13 Java in the mobile space in connection with Android	13 venture capitalist or whomever is doing this
14 would be valuable to Sun?	14 doesn't split the project into particular parts.
15 A I think so, yes. 10:16:52	15 They just use a discount rate. And the discount 10:18:42
16 Q And would you agree that Sun would have	16 rate, overall, reflects the relative risks in
17 expected that Google's promotion of Java in the	17 this, so you could argue to the degree that the
18 mobile space in connection with Android would be	18 15 percent -- well, you could argue that the
19 very valuable?	19 15 percent, in some sense, aggregates these risks
20 MR. COOPER: Objection; form. 10:17:04	20 and reflects those. 10:18:56
21 MR. PURCELL: Join.	21 Let me put it slightly differently. [REDACTED]
22 THE WITNESS: I don't know.	22 [REDACTED]
23 BY MR. NORTON:	23 at, let's say, the money market rate or something
24 Q So when you have to bring the future	24 like this because they're certain, then I think,
25 revenues back to net present value of 2006, you use 10:17:18	25 you know, one might argue that the Project 10:19:09
59	61

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1	Armstrong monies have to be discounted at a	10:19:10	1	Q And your use of 15 percent instead of	10:21:39
2	substantially higher interest rate because they are		2	11.77 percent is conservative, correct?	
3	more -- far more speculative and 15 percent is too		3	A Correct.	
4	low.		4	Q And conservative, again, in the sense that	
5	Q So in a sense, the 15 percent discount	10:19:21	5	had you used 11.77 percent, the royalty damages	10:21:46
6	rate is a -- is right for the whole project?		6	would be great?	
7	A It is. That's how we've treated it.		7	A Agreed.	
8	Q Now, the 15 percent discount rate itself		8	Q To the extent that -- well, let me strike	
9	is another number that you characterize as		9	that.	
10	conservative; is that right?	10:19:33	10	So one part of the equation is to figure	10:22:17
11	A Correct.		11	out what Sun's expected benefits are, expected	
12	Q And again, it's conservative in the sense		12	profits are, and discount them back to net present	
13	that it is a larger discount factor, discount rate,		13	value, correct?	
14	than might reasonably apply?		14	A Correct.	
15	A Well, this goes to an issue about --	10:19:46	15	Q And then the second part of the equation	10:22:27
16	that economists struggle with some on damages.		16	is to determine what Google's expected profits are	
17	You can get the rate of return, the cost of		17	and discount those back to net present value?	
18	capital, essentially, for firms that look like Sun		18	A Correct.	
19	and Google. And I think, actually, Professor --		19	Q Now, in calculating Google's anticipated	
20	or Dr. Cox does that, and it's 11-point something	10:20:05	20	benefits, what benefits did you consider?	10:22:39
21	percent.		21	(Whereupon, Allyson Franco with	
22	And then the question is, is a specific		22	Farella Braun & Martel, just	
23	project more or less risky than the average risk of		23	entered the conference room.)	
24	the firm's because that's the way the market values		24	THE WITNESS: I make the argument early in	
25	the firm as a whole. What you'd like to have, and	10:20:19	25	the report that the parties would have agreed to a	10:22:52
		62			64
1	the theoretically appropriate thing, is to have	10:20:22	1	license on Google's Android revenues on the	10:22:54
2	the -- the interest rate that reflects the risk of		2	argument, a monitoring argument, that you don't want	
3	the project, not the risk of the firm. We don't		3	to have things that are difficult to measure, so we	
4	have that, and typically you don't have that. So		4	just look at Google's Android revenues.	
5	it's conservative in the sense that it's above the	10:20:37	5	MR. COOPER: Let the record show that	10:23:07
6	average user cost of capital for firms that look		6	Allyson Franco from our firm has joined the	
7	like Sun, but it may not be conservative relative		7	deposition.	
8	to the risks of specific projects. I just don't		8	MR. NORTON: Thank you.	
9	have information on that.		9	BY MR. NORTON:	
10	Q All right.	10:20:54	10	Q Does it make any difference in your	10:23:15
11	But in Footnote 28 to your report, you		11	calculation whether Google expected other	
12	state that:		12	substantial benefits from watching Android?	
13	"I conclude use of the		13	A I'm not certain I know what you have in	
14	15 percent discount rate is		14	mind, so you need to be more specific about that.	
15	conservative in this instance"?	10:21:02	15	Q Okay.	10:23:55
16	A That's correct, because typically damage		16	In your review of the evidence, have you	
17	experts are left to use the average, not the		17	seen any evidence that Google expected Android to	
18	project specific. And we know the average for the		18	provide benefits to its Desktop search business?	
19	group of firms in that industrial classification		19	A Not really. There are vague allusions	
20	is, what, 11 something, 11.8 percent. So in that	10:21:19	20	to this, but I haven't seen, quote, evidence.	10:24:28
21	sense, it's conservative. That's all I meant.		21	Q To the extent that Google expected that	
22	Q So in your report, you note that the		22	Android would provide benefits to its Desktop search	
23	discount rate for 6 code 737, which includes both		23	business, are those benefits factored into your	
24	Sun and Google, was 11.77 percent?		24	royalty analysis?	
25	A Yes.	10:21:38	25	A Yes, in a sense they are. One of the	10:24:56
		63			65

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<p>1 points that I make in the -- in the report, and 10:24:59</p> <p>2 it's an important point, is that the expectations</p> <p>3 that the parties held in 2006 are reflected in the</p> <p>4 offer, they're baked into the offer. [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 They may</p> <p>15 have come from lots of different sources, but</p> <p>16 they're there. They were part of the negotiation. 10:25:48</p> <p>17 Q In calculating a royalty rate -- strike</p> <p>18 that.</p> <p>19 So if, in fact, Google expected that as a</p> <p>20 result of launching Android with Sun's Java</p> <p>21 technology, Google would earn additional benefits 10:26:17</p> <p>22 above and beyond advertising revenues that would</p> <p>23 double the value of Android to Google, your royalty</p> <p>24 analysis would be unchanged?</p> <p>25 A Yes. To the degree those expectations</p> <p>were held by Google when they negotiated it, 10:26:37</p> <p>66</p>	<p>1 continued. 10:28:15</p> <p>2 Q That's an assumption?</p> <p>3 A Sure. But it's always an assumption in</p> <p>4 contracts that the parties are well informed about</p> <p>5 their histories and understand and have 10:28:33</p> <p>6 expectations based on both their histories and</p> <p>7 looking forward, and that those expectations are</p> <p>8 built into their offers and counteroffers in the</p> <p>9 deal.</p> <p>10 Q Just so we're clear, to the extent that 10:28:48</p> <p>11 there was fragmentation already in existence --</p> <p>12 strike that.</p> <p>13 To the extent that there was fragmentation</p> <p>14 of Java that had already occurred as of the spring</p> <p>15 of 2006, that fragmentation is already baked into 10:28:59</p> <p>16 the negotiations between the parties in 2006,</p> <p>17 correct?</p> <p>18 A Correct. But my answer was a bit --</p> <p>19 little bit different than that.</p> <p>20 Q I want to do it in pieces. 10:29:12</p> <p>21 A Okay.</p> <p>22 Q All right.</p> <p>23 And then to the extent that an agreement</p> <p>24 between Sun and Google, consistent with the terms</p> <p>25 that they were discussing in 2006, to open source 10:29:24</p> <p>68</p>
<p>1 they're reflected in Google's willingness to pay 10:26:39</p> <p>2 whatever it agreed to pay in the 2006 contract.</p> <p>3 MR. PURCELL: Object to form.</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 BY MR. NORTON:</p> <p>9 Q Now, by using that 2006 negotiation as a</p> <p>10 starting point, is it correct to say that to the 10:27:09</p> <p>11 extent that Java was already fragmented in 2006,</p> <p>12 that that existing fragmentation is also already</p> <p>13 factored into -- baked into the negotiations between</p> <p>14 the parties at that time?</p> <p>15 A Yes, as is any fragmentation that may 10:27:37</p> <p>16 come from open sourcing.</p> <p>17 Q As is any fragmentation that may come from</p> <p>18 open sourcing that is compatible, correct?</p> <p>19 A Correct. Presumably the fragmentation</p> <p>20 that may have occurred before was fragmentation 10:27:54</p> <p>21 within compatible implementations, assuming that</p> <p>22 Sun protected its intellectual property. So we</p> <p>23 have a compatible implementation post 2006. And</p> <p>24 whatever was occurring with regard to</p> <p>25 fragmentation would have been expected to have 10:28:12</p> <p>67</p>	<p>1 Java would have caused some additional 10:29:27</p> <p>2 fragmentation, that's your opinion that is also</p> <p>3 baked into the value?</p> <p>4 A Correct.</p> <p>5 Q To the extent that Sun expected that the 10:29:35</p> <p>6 deal with Google would slow fragmentation, that</p> <p>7 would have been a benefit that Sun would expect from</p> <p>8 this that you have not factored into the analysis,</p> <p>9 correct?</p> <p>10 A No. That would have been factored into 10:29:52</p> <p>11 their expectations.</p> <p>12 Q To the extent that actual infringing --</p> <p>13 To the extent that the actual use of the</p> <p>14 Java technology by Google is infringing and has</p> <p>15 caused fragmentation that is greater than Sun would 10:30:07</p> <p>16 have expected from the 2006 deal, that is not</p> <p>17 accounted for in your reasonable royalty, correct?</p> <p>18 A That's correct. And I have indicated in</p> <p>19 several places that this doesn't account for --</p> <p>20 fully account for an upward adjustment for 10:30:20</p> <p>21 fragmentation.</p> <p>22 Q And to the extent that Sun would have --</p> <p>23 A Fragmentation from a noncompatible</p> <p>24 implementation, as opposed to fragmentation</p> <p>25 from -- that may have occurred because of a 10:30:30</p> <p>69</p>

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<p>1 compatible implementation. 10:30:33</p> <p>2 Q So when we look at the hypothetical</p> <p>3 negotiation, imagine the parties negotiating for the</p> <p>4 infringement that Google actually did, do you agree</p> <p>5 that Sun would have expected some additional 10:30:49</p> <p>6 compensation to account for the risk of increased</p> <p>7 fragmentation from an incompatible implementation?</p> <p>8 A Yes.</p> <p>9 Q And that additional compensation that Sun</p> <p>10 would have expected is not included in your royalty 10:31:09</p> <p>11 calculations; is that right?</p> <p>12 A Correct.</p> <p>13 Q Now, in addition to the issue of</p> <p>14 fragmentation, by using the 2006 starting point, is</p> <p>15 it correct to say that the -- strike that. I'm 10:31:28</p> <p>16 sorry.</p> <p>17 Is it fair to say that by using the 2006</p> <p>18 starting point, the consideration of alternatives is</p> <p>19 already baked into the numbers?</p> <p>20 A Yes, I say that explicitly in my report. 10:31:48</p> <p>21 Q When you say "explicitly," is that</p> <p>22 Paragraphs 177 to 179 of your report?</p> <p>23 A Yes. But in addition, there are a</p> <p>24 couple of footnotes.</p> <p>25 Q I hate to do this to you, but can you 10:32:12</p> <p style="text-align: right;">70</p>	<p>1 made in 2006. 10:33:35</p> <p>2 Q Okay.</p> <p>3 And so to the extent that there were</p> <p>4 alternatives available to Google in 2006, the</p> <p>5 economic effect of those alternatives is already 10:33:45</p> <p>6 baked into the bargain the parties would have struck</p> <p>7 at that time?</p> <p>8 A Yes.</p> <p>9 Q And if that's correct, then there should</p> <p>10 be no need to make any adjustment to the portfolio 10:33:55</p> <p>11 royalty based on arguments that there are</p> <p>12 alternatives; is that right?</p> <p>13 A That's my opinion.</p> <p>14 Q So if we could turn to Paragraph 86.</p> <p>15 Now, in paragraph 86 here in your report, 10:35:06</p> <p>16 you describe, if I understand correctly, the step</p> <p>17 where you convert the expected value to Google and</p> <p>18 expected value to Sun into an effective report for</p> <p>19 the entire portfolio; is that right?</p> <p>20 A Correct. 10:35:24</p> <p>21 Q Now, at the beginning of the deposition</p> <p>22 you explained that there is a change that you would</p> <p>23 make to the calculation here that would slightly</p> <p>24 decrease the denominator of the equation.</p> <p>25 A Yes. 10:35:41</p> <p style="text-align: right;">72</p>
<p>1 direct me to those? 10:32:14</p> <p>2 A Sure. One in verse -- paragraph --</p> <p>3 Q Some of us write in poetry. Some of us</p> <p>4 write in prose.</p> <p>5 A Yes. Paragraph 76, Footnote 38, this is 10:32:29</p> <p>6 talking about Sun, but it's equally true about</p> <p>7 Google.</p> <p>8 Q So in Footnote 38 -- let me catch up to</p> <p>9 you.</p> <p>10 In Footnote 38, you're referring to 10:32:58</p> <p>11 Paragraph 76. You say:</p> <p>12 "This is another example of a</p> <p>13 point I made earlier: What Sun</p> <p>14 knew in 2006 about its Java ME</p> <p>15 business and Sun's expectations 10:33:09</p> <p>16 with regard to the effects of an</p> <p>17 agreement with Google for an</p> <p>18 open-source Java-VM Android on its</p> <p>19 Java ME business would be fully</p> <p>20 reflected in its 2006 offer." 10:33:21</p> <p>21 And you say that's equally true of Google.</p> <p>22 Can you explain what you mean?</p> <p>23 A The expectations that the parties held</p> <p>24 about what would happen going forward are</p> <p>25 reflected in the agreements that they would have 10:33:32</p> <p style="text-align: right;">71</p>	<p>1 Q All right. 10:35:41</p> <p>2 And do you have a calculation as to what</p> <p>3 the percentage royalty would be after you make that</p> <p>4 correction?</p> <p>5 A This affects it as second decimal place 10:35:50</p> <p>6 or the first decimal place. It's a teeny effect.</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 [REDACTED]</p> <p style="text-align: right;">73</p>

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<p>1 [REDACTED]</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 Q And that's true of the 2006 negotiation, right? 10:38:05</p> <p>20</p> <p>21 A Yes, because we're trying to convert it</p> <p>22 into a royalty that Sun would have accepted in</p> <p>23 lieu of its opportunity to monetize through</p> <p>24 Project Armstrong and the other payments that were</p> <p>25 being made. 10:38:18</p> <p style="text-align: right;">74</p>	<p>1 reflects the aggregate value of the two parties' 10:39:20</p> <p>2 expectations of what this intellectual property</p> <p>3 was worth in 2006.</p> <p>4 Q Is there a difference between the two</p> <p>5 parties' expectation of what the aggregate value of 10:39:33</p> <p>6 this project was in 2006, and what that value</p> <p>7 actually turned out to be in real life?</p> <p>8 A I'm sure there is.</p> <p>9 Q Is one of the ways in which it's different</p> <p>10 is that Sun did not get the opportunity to monetize 10:39:45</p> <p>11 Android through Project Armstrong?</p> <p>12 A Correct.</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 [REDACTED]</p> <p style="text-align: right;">76</p>
<p>1 Q Right. 10:38:18</p> <p>2 Now, the Google's actual infringement,</p> <p>3 however, denied Sun the opportunity to earn that</p> <p>4 money from Project Armstrong, correct?</p> <p>5 MR. PURCELL: Object to the form. 10:38:30</p> <p>6 THE WITNESS: Right, but that's why we're</p> <p>7 estimating a royalty here that they would have</p> <p>8 accepted in lieu of having that opportunity.</p> <p>9 BY MR. NORTON:</p> <p>10 Q Right. 10:38:39</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 Q So Sun expected to get the Project</p> <p>20 Armstrong -- 10:39:05</p> <p>21 A So Sun -- Google wasn't paying Sun a</p> <p>22 for-certain amount equal to the Project Armstrong.</p> <p>23 This was fully Sun's risks. It undertook a</p> <p>24 business project, and there were these risks, so</p> <p>25 you should net that out. But it certainly 10:39:18</p> <p style="text-align: right;">75</p>	<p>1 [REDACTED]</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 [REDACTED]</p> <p style="text-align: right;">77</p>

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<p>[REDACTED]</p>	<p>[REDACTED]</p>
<p>[REDACTED]</p>	<p>[REDACTED]</p> <p>16 Q Okay.</p> <p>17 Are you aware that, however, that Dr. Cox</p> <p>18 only calculated Google revenues through</p> <p>19 September 2011 and not year end?</p> <p>20 A Yes. 11:14:01</p> <p>21 Q And you're aware that Dr. Cockburn</p> <p>22 calculated revenues through the end of 2011?</p> <p>23 A Yes.</p> <p>24 Q You understand that's part of the reason</p> <p>25 for the disparity between the numbers? 11:14:11</p>

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1	A	It may very well be, sure.	11:14:14	1	A	Yes.	11:16:43
2	Q	For purposes of your calculations in your report, you have used the numbers from Dr. Cox's report?		2	Q	And same for direct sales of the Nexus handset?	
3				3			
4				4	A	Yes. Although it's unclear how to treat that to the degree that's not a particularly large part of this business, as I understand, so it's not going to matter very much.	11:16:53
5	A	Correct.	11:14:19	5			
6	Q	And to the extent that revenues as of the date of trial are greater than they were calculated by Dr. Cox back in September, that would increase the royalty -- well, increased the damages number?		6	Q	Actually, would you look at your Table 9?	
7				7	A	Sure.	
8				8	Q	On Table 9, you're using Dr. Cox's numbers; is that right?	11:17:18
9	A	Sure. I think I've been clear, but if I haven't been clear, what I'm putting forth is a methodology that if asked to testify, I would instruct the jury about -- or not instruct, but testify to, and the jury would then multiply this number, times the actual revenues that had come into evidence in some other way. So the numbers here for damages, the dollar numbers are illustrative. They are not my opinion of what damages actually are.	11:14:35	9			
10				10	A	Yes.	
11				11			
12				12			
13				13			
14				14			
15			11:14:49	15			
16				16			
17				17			
18				18			
19				19			
20	Q	And when you calculate --	11:15:04	20			
21		The revenues that you consider for purposes of your royalty calculation are limited to the United States; is that correct?		21			
22				22			
23				23			
24	A	Yes.		24			
25	Q	You only use advertising revenue and not	11:15:17	25			
			94				96
1		Android market revenue or direct sales of handsets?	11:15:20	1			
2	A	I think it's just advertising revenue.		2			
3	Q	Is there a reason why you did not consider Android market revenue in your calculation of damages on the royalty?	11:15:31	3			
4				4			
5				5			
6	A	There is interesting literature in economics about monitoring, and the argument essentially is that parties will agree in contracts typically to things that are easy to monitor; that is, that have -- where they can have external verification. And so I make the argument that the parties would have agreed to a royalty on revenues, on Android's advertising revenues, okay, because they are a direct measure of the benefit of having the Android operating system on the phones. To the degree there are convoyed sales or other kinds of things that are difficult to monitor, I don't believe they would be in the royalty base.	11:15:51	6			
7				7			
8				8			
9				9			
10				10			
11				11			
12				12			
13				13			
14				14			
15			11:16:13	15			
16				16			
17				17			
18				18			
19				19			
20	Q	So you characterize --	11:16:29	20			
21		For this purpose, are you characterizing revenues from the Android market as convoyed sales?		21			
22				22			
23	A	Yeah. If you mean by the Android market, the sales of apps?		23			
24				24			
25	Q	I do.	11:16:41	25			
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<p>1 [REDACTED] 11:26:37</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 Q That is your best economic advice?</p> <p>19 A Yes.</p> <p>20 Q It would be fair to say that's your best 11:25:09</p> <p>21 economic judgment?</p> <p>22 A Yes.</p> <p>23 Q So is it correct to say that your best</p> <p>24 economic judgment is that the value of the in-suit</p> <p>25 IP in this case is the value of the Java ME 11:25:19</p> <p style="text-align: right;">102</p>	<p>1 agreement for that bundle of intellectual 11:26:37</p> <p>2 property.</p> <p>3 If you assume that Google did not know in</p> <p>4 2006 what it needed, then you can think about this</p> <p>5 in a couple of different ways. One, you can think 11:26:50</p> <p>6 of it as -- as an option to use some, all or none</p> <p>7 of the intellectual property, and what's the option</p> <p>8 value for being able to choose both what you want</p> <p>9 to use and the timing in which you use it. And the</p> <p>10 option value, I think, would be the portfolio 11:27:10</p> <p>11 value. That's what portfolio licenses are,</p> <p>12 essentially, in this setting.</p> <p>13 A third way to think about it is, suppose</p> <p>14 that Google didn't really want to use Java ME</p> <p>15 directly, but wanted to use a Java Virtual Machine 11:27:26</p> <p>16 and write in Java so that applications and OEMs</p> <p>17 would be attracted to the platform because they</p> <p>18 thought Java was necessary. So they are going to</p> <p>19 go out and write their own thing. But they</p> <p>20 understood, or would understand, I think 11:27:43</p> <p>21 reasonably, that Sun, that had done this for many,</p> <p>22 many years, had bumped into the problems that it</p> <p>23 would encounter as it -- as it went out and did its</p> <p>24 own Java Virtual Machine. And as it solved those</p> <p>25 problems, it was likely to solve them in the same 11:28:02</p> <p style="text-align: right;">104</p>
<p>1 portfolio from 2006? 11:25:25</p> <p>2 A Yes. I'm quibbling about this only</p> <p>3 because, as I suggest in the previous paragraphs,</p> <p>4 paragraphs running up to this paragraph, there are</p> <p>5 several ways to think about this. And in my 11:25:40</p> <p>6 economic opinion, there would have been a</p> <p>7 portfolio negotiation. All right? And therefore,</p> <p>8 if some subset of the portfolio is infringed, the</p> <p>9 value is the portfolio value.</p> <p>10 Q Okay. 11:25:57</p> <p>11 A But I don't mean -- the way you frame it</p> <p>12 suggests that I've apportioned this to those, and</p> <p>13 that's not quite what I've done.</p> <p>14 Q Okay.</p> <p>15 I know this isn't in the report, but why 11:26:09</p> <p>16 don't you explain what it is that you have done in</p> <p>17 reaching the conclusions that you express in Section</p> <p>18 K?</p> <p>19 A Three different things, three or four</p> <p>20 different things. First, if you think of the 11:26:21</p> <p>21 hypothetical negotiation as the parties knowing in</p> <p>22 2006 what intellectual property they needed,</p> <p>23 Google knew what it needed, it needed these two</p> <p>24 patents and it needed the 37 copyrights, then</p> <p>25 whatever the agreement was in 2006 was the 11:26:35</p> <p style="text-align: right;">103</p>	<p>1 way that Sun had solved them and, hence, crossed 11:28:04</p> <p>2 the boundaries of a Sun patent. So in that sense,</p> <p>3 you can think of the portfolio license as an</p> <p>4 insurance against subsequent litigation if you</p> <p>5 happened to have crossed a boundary when you, in 11:28:20</p> <p>6 fact, were doing your own thing here.</p> <p>7 Q So in each of those three scenarios,</p> <p>8 Google knows exactly what it wants. Google doesn't</p> <p>9 know what it wants. Google is looking for insurance</p> <p>10 as it goes down the Java path. In each of those 11:28:41</p> <p>11 three scenarios, the value of the IP-in-suit would</p> <p>12 be the value of the 2006 portfolio; is that correct?</p> <p>13 A Yes, although I think you misstated</p> <p>14 that. In the first one, I assume that Java --</p> <p>15 that Google knows what it needs. Okay? In the 11:28:56</p> <p>16 second two, Google doesn't know what it needs. It</p> <p>17 just believes it might need some part of this.</p> <p>18 Q Okay.</p> <p>19 A Okay? But again, we need to be careful</p> <p>20 about pushing this in a certain way to suggest 11:29:12</p> <p>21 that this is a -- I mean, it would be this if it</p> <p>22 had gone a different route and infringed a</p> <p>23 different set of patents. It would have been this</p> <p>24 if they had infringed 80 percent of the patents,</p> <p>25 because it's the portfolio that they were buying 11:29:27</p> <p style="text-align: right;">105</p>

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<p>1 [REDACTED] [REDACTED]</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 that.</p> <p>18 If the jury were to apply a per-unit</p> <p>19 royalty, as opposed to a percentage of revenue</p> <p>20 royalty, using activations as of April 16, 2012, do 11:36:11</p> <p>21 you believe there is any adjustment that should be</p> <p>22 made in order to have that royalty be as of present</p> <p>23 value as of the date of trial?</p> <p>24 A Perhaps, but this is really complex and</p> <p>25 goes to some legal issues I don't understand, but 11:37:04</p> <p style="text-align: right;">110</p>	<p>1 Q Okay. 11:38:21</p> <p>2 Is it appropriate to include damages for</p> <p>3 phones that have been activated as of the date of</p> <p>4 trial?</p> <p>5 A That have not? 11:38:39</p> <p>6 Q That have, all phones that have been</p> <p>7 activated as of the date of trial.</p> <p>8 A That's a legal issue.</p> <p>9 Q As an economic matter, do you have an</p> <p>10 opinion? 11:38:47</p> <p>11 A Well, to the degree that Google gets, or</p> <p>12 Oracle gets, a going-forward royalty, then it gets</p> <p>13 a royalty on the revenues those phones will</p> <p>14 generate going forward. So in that sense, it's</p> <p>15 not disadvantaged by not getting the damages at 11:39:01</p> <p>16 trial.</p> <p>17 So suppose I have a ramp-up in which I</p> <p>18 have almost no revenue now, but a lot of revenue a</p> <p>19 year from now on phones that were activated before</p> <p>20 trial. Then presumably, Oracle would get the 11:39:17</p> <p>21 return on those phones when those revenues are</p> <p>22 reported in the -- and the royalty rate was applied</p> <p>23 to the royalty -- I mean, to the -- to the</p> <p>24 revenues.</p> <p>25 Q To the extent that the outcome of the case 11:39:39</p> <p style="text-align: right;">112</p>
<p>1 let me sort of put out what -- I mean, the parties 11:37:08</p> <p>2 shouldn't be able to choose, ex post, the most</p> <p>3 advantageous to them. All right? These are ex</p> <p>4 ante numbers, and you shouldn't be able to say,</p> <p>5 well, this one works better for me than this one, 11:37:21</p> <p>6 because the actual path over that period is</p> <p>7 different than we anticipated. All right? That's</p> <p>8 the first point.</p> <p>9 The second point is that, clearly, an</p> <p>10 assumption in this, an implicit assumption as I 11:37:35</p> <p>11 think about it, is we're sort of talking about</p> <p>12 steady-state income on these phones. And to the</p> <p>13 degree there is a ramp-up, then these two numbers</p> <p>14 give you slightly different numbers. But I don't</p> <p>15 know the evidence on that, and I don't think 11:37:48</p> <p>16 anybody has addressed it, so I have no way of</p> <p>17 making an adjustment for that. But I would agree</p> <p>18 that the fact that you're talking about April 2012,</p> <p>19 and that you have had a lot of phones that have</p> <p>20 sort of -- what's the word I want -- been -- 11:38:04</p> <p>21 Q Activated?</p> <p>22 A -- activated, but don't have much</p> <p>23 royalty on them yet, that's a bit of a problem.</p> <p>24 So there is a steady-state assumption in</p> <p>25 here. 11:38:20</p> <p style="text-align: right;">111</p>	<p>1 is that there is an award of historical damages and 11:39:40</p> <p>2 an injunction going forward that prevents Google</p> <p>3 from using -- from infringing the patents and</p> <p>4 copyrights, do you have an opinion as to whether</p> <p>5 it's appropriate to calculate a per-unit royalty 11:39:54</p> <p>6 based on the activations prior to the entry of the</p> <p>7 injunction?</p> <p>8 A I'm not sure that matters because if</p> <p>9 you -- if you -- to some degree, the per-unit</p> <p>10 royalty, as I said, is a steady-state royalty, so 11:40:15</p> <p>11 you've sort of taken the forward revenues and</p> <p>12 awarded them to Oracle as damages as of the date</p> <p>13 of trial. That would reduce Oracle's negotiating</p> <p>14 position in the -- with the -- with the</p> <p>15 injunction. 11:40:32</p> <p>16 To the degree that you haven't done that</p> <p>17 and those royalties are forward, that would enhance</p> <p>18 Oracle, so it just changes sort of slightly the</p> <p>19 value of the injunctive remedy, depending upon</p> <p>20 whether or not more of it was loaded before the 11:40:45</p> <p>21 injunction or more of it came afterwards.</p> <p>22 Q Now, in various points in your report, you</p> <p>23 address the issue of incompatibility, and you also</p> <p>24 talk about fragmentation; is that correct?</p> <p>25 A Correct. 11:41:23</p> <p style="text-align: right;">113</p>

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<p>1 Q Can you tell me how you define 11:41:27</p> <p>2 "incompatibility" in the way that you have attempted</p> <p>3 to compensate for it in your report?</p> <p>4 A "Incompatibility," as I understand it,</p> <p>5 is a Dalvik VM versus a Java VM in Android. 11:41:46</p> <p>6 Q In considering compatibility, do you</p> <p>7 consider the use of the 37 copyrighted APIs in a way</p> <p>8 that is incompatible with the Java specification?</p> <p>9 A I'm not quite sure what that means. You</p> <p>10 need to help me on that. 11:42:24</p> <p>11 Q Do you understand that Oracle contends in</p> <p>12 this case that not only is the Dalvik VM not</p> <p>13 compatible, but that the way in which Google has</p> <p>14 used the Java APIs is incompatible with the Java</p> <p>15 specification? 11:42:39</p> <p>16 A I understand what you just described,</p> <p>17 but I frankly don't understand the legal issue</p> <p>18 here. I mean, let me tell you what -- I mean, if</p> <p>19 there is copyright infringement, presumably the</p> <p>20 infringement occurred because Google made the 37 11:43:02</p> <p>21 APIs close enough to Java APIs that Java writers</p> <p>22 could, with minimal effort, write programs for</p> <p>23 Android in Java that would run on Android, but not</p> <p>24 run on other things. So they're not so</p> <p>25 incompatible, or else they wouldn't be useful. 11:43:24</p> <p style="text-align: right;">114</p>	<p>1 incompatibility with respect to the copyrights, is 11:44:44</p> <p>2 that considered in your report?</p> <p>3 A I don't want to use weasel words here,</p> <p>4 but it may or may not be. And it depends upon</p> <p>5 something I don't have expertise in, and that's 11:45:18</p> <p>6 how to construct and read the contracts, the</p> <p>7 formal -- not the formalized contracts, but the</p> <p>8 deals that were put onto paper in March of 2006.</p> <p>9 And I don't know enough about how to construct or</p> <p>10 think about those to know whether or not the grant 11:45:37</p> <p>11 of intellectual property in the one paragraph that</p> <p>12 grants it envisions that Android was free to then</p> <p>13 use this -- that Google was then free to use it in</p> <p>14 the way that it has used the APIs -- let me back</p> <p>15 up. 11:45:56</p> <p>16 If I took the 37 APIs and I licensed them</p> <p>17 and Android then -- then Google then put together</p> <p>18 with them other APIs, which it then sort of used to</p> <p>19 propagate applications that ran on a Java VM</p> <p>20 Android, if that's what's envisioned in the 11:46:15</p> <p>21 license, then yes, I've incorporated it. All</p> <p>22 right? Okay?</p> <p>23 Q Okay.</p> <p>24 You understand that the 2006 negotiations</p> <p>25 contemplated an Android that would be compatible, 11:46:30</p> <p style="text-align: right;">116</p>
<p>1 Q All right. 11:43:28</p> <p>2 Let me try to --</p> <p>3 Do you understand that Oracle contends</p> <p>4 that Sun would not license the 37 APIs on terms that</p> <p>5 would allow those APIs to be superseded or 11:43:44</p> <p>6 subsetting in comparison to the specification?</p> <p>7 A I've seen that discussion. And frankly,</p> <p>8 that's technical stuff, and I have no opinion</p> <p>9 about it.</p> <p>10 Q Okay. 11:44:00</p> <p>11 Do you have an understanding as to</p> <p>12 whether -- well, assume with me that the problem is</p> <p>13 not that Google used the 37 APIs in a way that is</p> <p>14 different from the way that Sun used them, the</p> <p>15 specific APIs, but rather that Google used them with 11:44:16</p> <p>16 other APIs that make it impossible for a program</p> <p>17 written to the Android specification using the 37</p> <p>18 Java APIs and the remaining Android APIs to run on a</p> <p>19 Java platform?</p> <p>20 A Okay. 11:44:33</p> <p>21 Q Further assume that Sun would not have</p> <p>22 agreed to that without substantial compensation.</p> <p>23 A Okay.</p> <p>24 Q All right.</p> <p>25 So if that is the meaning of 11:44:40</p> <p style="text-align: right;">115</p>	<p>1 correct? 11:46:33</p> <p>2 A Right.</p> <p>3 Q Do you also assume that Sun's ability to</p> <p>4 obtain the benefits of the Armstrong project</p> <p>5 depended upon Android being compatible? 11:46:46</p> <p>6 MR. PURCELL: Object to the form.</p> <p>7 THE WITNESS: I don't know. You're</p> <p>8 venturing into technical areas that I can't opine</p> <p>9 on.</p> <p>10 BY MR. NORTON: 11:46:59</p> <p>11 Q Is the reason why the Android revenues --</p> <p>12 I'm sorry.</p> <p>13 Is the reason why the Armstrong revenues</p> <p>14 are included in the royalty calculation because that</p> <p>15 is value that Sun expected to get in the 2006 11:47:18</p> <p>16 negotiation, but did not receive in the hypothetical</p> <p>17 world?</p> <p>18 A Yes.</p> <p>19 Q Okay. All right.</p> <p>20 And so to the extent that Google's 11:47:30</p> <p>21 infringement prevented Sun and Oracle from obtaining</p> <p>22 the benefits of the Armstrong project, have you</p> <p>23 fully accounted for that in your royalty</p> <p>24 calculations?</p> <p>25 A I believe so, the Armstrong project 11:47:48</p> <p style="text-align: right;">117</p>

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<p>1 itself. 11:47:50</p> <p>2 Q Subject to the fact that the number of</p> <p>3 your calculations are conservative?</p> <p>4 A Correct.</p> <p>5 Q And so to the extent that any of your 11:47:59</p> <p>6 Armstrong calculations are conservative, you would</p> <p>7 have undercompensated for the harm of</p> <p>8 incompatibility, correct?</p> <p>9 A I don't know. It depends upon whether</p> <p>10 or not you think the Armstrong expectations are a 11:48:27</p> <p>11 reasonable way of thinking about what they lost</p> <p>12 when you've got an incompatible deal.</p> <p>13 Q To the extent --</p> <p>14 A If they are, then you fully incorporated</p> <p>15 them. 11:48:41</p> <p>16 Q To the extent that the Armstrong</p> <p>17 calculations are an appropriate way to address the</p> <p>18 issue of incompatibility, your royalty addresses</p> <p>19 incompatibility because it takes into consideration</p> <p>20 the Armstrong projections? 11:49:00</p> <p>21 A Correct.</p> <p>22 Q Nonetheless, to the extent that your net</p> <p>23 present value of the Armstrong benefit is</p> <p>24 conservative, it necessarily does not capture all of</p> <p>25 the harm of incompatibility, correct? 11:49:14</p> <p style="text-align: right;">118</p>	<p>1 which you have addressed incompatibility is by 11:50:36</p> <p>2 considering the benefits that Sun expected to get</p> <p>3 from Armstrong; and, two, to the extent that your</p> <p>4 net present value calculation of the benefits to Sun</p> <p>5 from Armstrong are conservative, it is necessarily 11:50:52</p> <p>6 the case that your adjustment to compensate for</p> <p>7 incompatibility must also be conservative?</p> <p>8 A Agree.</p> <p>9 Q All right.</p> <p>10 Is there any other calculation in your 11:51:06</p> <p>11 approach, other than the Armstrong benefits, that</p> <p>12 would address the issue of incompatibility?</p> <p>13 A That I can imagine or that I considered?</p> <p>14 Q That you have --</p> <p>15 Numbers that you have actually calculated 11:51:26</p> <p>16 and incorporated into your analysis.</p> <p>17 A No.</p> <p>18 Q All right.</p> <p>19 Now, another term that appears in your</p> <p>20 report is "fragmentation." Do you understand 11:51:33</p> <p>21 "fragmentation" to mean something different from</p> <p>22 "incompatibility"?</p> <p>23 A Yes, with the caveat I'm not a technical</p> <p>24 expert here.</p> <p>25 Q Okay. 11:51:44</p> <p style="text-align: right;">120</p>
<p>1 A Well, I wouldn't put it that way. It's 11:49:17</p> <p>2 conservative along a number of different</p> <p>3 dimensions that may or may not have anything to do</p> <p>4 with compatibility. So I agree that my estimate</p> <p>5 is conservative, for example, the discount rate 11:49:28</p> <p>6 issue that we discussed earlier. So it's</p> <p>7 conservative for a number of different points that</p> <p>8 I've made. All right? But that's -- that means</p> <p>9 that it underestimates the true value for those</p> <p>10 reasons, not necessarily for incompatibility. 11:49:45</p> <p>11 Q But if the only way in which you have</p> <p>12 addressed the harm of incompatibility is by</p> <p>13 factoring the Armstrong projections, then it is</p> <p>14 necessarily the case that if your Armstrong</p> <p>15 projections are conservative, then your adjustment 11:49:59</p> <p>16 for incompatibility is conservative?</p> <p>17 MR. COOPER: Objection; form.</p> <p>18 MR. PURCELL: Join.</p> <p>19 THE WITNESS: Sure. I mean I'll agree to</p> <p>20 that. I don't know what you mean by the, "Armstrong 11:50:22</p> <p>21 projections are conservative." Again, that could go</p> <p>22 to the discount. I've discounted them at too high a</p> <p>23 discount rate.</p> <p>24 BY MR. NORTON:</p> <p>25 Q To the extent that, one, the only way in 11:50:33</p> <p style="text-align: right;">119</p>	<p>1 Why don't you just give me the 11:51:44</p> <p>2 understanding that you have employed, regarding the</p> <p>3 report, as to the term "fragmentation."</p> <p>4 A Well, I have fudged the issue, as has</p> <p>5 everybody else, about what the open-source license 11:51:57</p> <p>6 is, whether it's the Apache license or the GPL.</p> <p>7 It's my understanding -- and again, it's a</p> <p>8 technical issue, so I'm not -- I may be wrong in</p> <p>9 my understanding -- that the GPL would have led to</p> <p>10 less fragmentation than the Apache license. And 11:52:16</p> <p>11 to the degree that Android was built and</p> <p>12 distributed with the Apache license, then that's</p> <p>13 my understanding of incremental fragmentation,</p> <p>14 okay, beyond what we talked about earlier today,</p> <p>15 which was the fragmentation that was going on 11:52:30</p> <p>16 anyway and would have occurred with open sourcing</p> <p>17 under whatever license you would have used.</p> <p>18 Q Do you agree that the hypothetical license</p> <p>19 should ideally account for the incremental</p> <p>20 fragmentation that would be expected to occur as a 11:53:02</p> <p>21 result of Google's infringing use?</p> <p>22 A The hypothetical license, yes, I agree.</p> <p>23 Q All right.</p> <p>24 And one question that you have is, in</p> <p>25 determining the incremental fragmentation, are we 11:53:23</p> <p style="text-align: right;">121</p>

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<p>1 comparing Google's infringement to a 2006 11:53:26 2 negotiation that would open source under the GPL or 3 under Apache? 4 That was a terrible question. Let me try 5 that again. 11:53:38 6 You want to measure the anticipated 7 incremental fragmentation, right? 8 A Yes. Based on some questions you asked 9 this morning, or earlier today, there are two 10 potential incremental fragmentations. To the 11:53:52 11 degree that Java ME was fragmented before, and 12 became fragmented in the normal course of 13 business, I don't know whether it was or it 14 wasn't, but your question implied that it may have 15 been -- there may have been some baseline 11:54:08 16 fragmentation. Then going forward, you would have 17 expected that fragmentation to continue. 18 And we had a discussion earlier about 19 whether an open-source license would have enhanced 20 that, that baseline fragmentation of Java ME. That 11:54:18 21 would have been baked into the negotiation because 22 the parties knew that -- Sun knew that it was going 23 to have a open-source license on this matter. 24 Okay? 25 Then to the degree that Sun would never 11:54:36</p> <p style="text-align: right;">122</p>	<p>1 fragmentation as a result of open sourcing would be 11:56:27 2 exactly the same, regardless of whether Sun remained 3 in control or Google remained in control, if the 4 parties had agreed in 2006 on an Apache license? 5 A No. That's an interesting question in 11:56:53 6 that I don't think the issue of Sun's subsequent 7 control has been factored into anybody's analysis, 8 including mine, except to the degree the control 9 was embedded in the license itself, the type of 10 license. So to the degree that Sun and Google are 11:57:11 11 no longer partners in the hypothetical world, and 12 because Sun's not weighing into the development 13 here, that that -- I just don't know whether that 14 would have led to more fragmentation or not. I 15 really don't know. 11:57:28 16 Q Well, do you understand that one of the 17 sources of fragmentation is the fact that Android is 18 incompatible, not just that it's open source, but 19 that it's incompatible? 20 A Yes. 11:57:49 21 Q All right. 22 And if in the 2006 negotiation the parties 23 expected that -- let's just assume the parties 24 expected they would use an Apache license for Java 25 and Android in the 2006 negotiation, but that Sun 11:58:13</p> <p style="text-align: right;">124</p>
<p>1 have accepted an open-source license that was 11:54:39 2 potentially more fragmenting than a different 3 open-source license, then that would not have been 4 built in, although it may have been if they had 5 agreed on that license. It's really unclear on 11:54:56 6 which license they were going to agree on, and it's 7 my understanding that's, in part, why the 8 negotiations fell apart, was over that license. 9 Q All right. 10 So if I understand you correctly, part of 11:55:07 11 what you're wrestling with is if Android is released 12 under the Apache license, and it was anticipated by 13 the parties in 2006 that Android would be released 14 under the Apache license, then you wonder whether 15 there is any incremental fragmentation as a result 11:55:32 16 of open source -- 17 A No. In that case, I don't wonder. In 18 that case, I assume there is not. 19 Q As the result of open sourcing? 20 A No, as a sole source -- yeah, that's 11:55:40 21 right, of the -- the license would have that 22 fragmentation, anticipated fragmentation, built 23 into it, the 2006, not the hypothetical, the 2006 24 license. 25 Q Is it your opinion that the extent of 11:56:24</p> <p style="text-align: right;">123</p>	<p>1 would remain in a position where it could ensure 11:58:16 2 that Android remained compatible with the existing 3 Java specifications. 4 In that scenario, the anticipated 5 fragmentation as of 2006 would be less than the 11:58:28 6 anticipated fragmentation as a result of the 7 hypothetical license, correct? 8 A Possibly. 9 Q Can you give me probably? 10 Let me ask you this way: Who has a 11:58:45 11 greater interest in ensuring that Android remained 12 compatible with existing Java? Google or Sun? 13 A Sun did, but it's not clear that Google 14 had an interest in sort of going out and 15 specifically fragmenting. I mean, Google had an 11:59:00 16 interest in creating its own platform. And to the 17 degree that that's incompatible, that is, itself, 18 a fragmentation, I agree. That a fragment, 19 however you want to think about this, fork off of 20 this. Okay? But the reason I gave the answer I 11:59:14 21 did is my reading of the record is that Google 22 was, itself, very concerned about fragmenting the 23 Android platform. So to the degree that it didn't 24 allow for further fragmentation, one. Second step 25 is, to the degree -- and I'm going to get the 11:59:34</p> <p style="text-align: right;">125</p>

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1	names wrong here -- the TCK and the Android	11:59:36	1	Q Is that a economically important	12:02:05
2	equivalent of the TCK were more or less testing		2	difference?	
3	the same thing, then there is no reason to believe		3	A Maybe.	
4	that you've got fragmentation beyond sort of		4	Q What consideration have you given to	
5	what -- the initial step.	11:59:47	5	whether it's economically important?	12:02:10
6	Q Right.		6	A Well, we're cursed with hindsight,	
7	The initial step, which is, in fact,		7	right? I mean, the -- the smartphones have sort	
8	fragmentation?		8	of taken the market, although not worldwide, but	
9	A It is fragmentation.		9	in the U.S., and feature phones have become less	
10	Q All right.	11:59:55	10	important. It's unclear whether this was clear in	12:02:35
11	Now, with respect to the fragmentation		11	2005, 2006. When Sun -- or when Apple announced	
12	that is the result of the initial step, is there		12	its new iPhone, it was unclear whether this was	
13	anyplace in your report where you have attempted to		13	going to be a successful product or not. So at	
14	calculate the value of or the harm of that		14	the time, I don't know that the expectations of	
15	fragmentation?	12:00:08	15	these two different phones were all that	12:02:55
16	A No.		16	different.	
17	Q So that's unquantified throughout your		17	Q Based on the Google projections you have	
18	report?		18	seen, did Google expect smartphones to be more	
19	A Correct.		19	valuable to its business than feature phones?	
20	Q And are you aware of any way of	12:00:13	20	A Yes.	12:03:11
21	calculating that fragmentation from the infringing		21	Q Based on the Armstrong projections, did	
22	use?		22	Sun expect smartphones to be more valuable to its	
23	A No.		23	business than feature phones on a per-unit basis?	
24	Q Hold on one second.		24	A I don't know because I don't know the	
25	I want to talk for a minute about the	12:00:37	25	universal business with smartphones. I know it	12:03:32
		126			128
1	Danger license. You examined the Danger license in	12:00:39	1	had lots of these royalty arrangements with	12:03:35
2	your report at Paragraphs 87 through 96; is that		2	smartphone manufacturers, the OEMs. I just don't	
3	right?		3	know the universe of that.	
4	A Yes.		4	[REDACTED]	
5	[REDACTED]		5	[REDACTED]	
6	[REDACTED]		6	[REDACTED]	
7	[REDACTED]		7	[REDACTED]	
8	[REDACTED]		8	[REDACTED]	
9	[REDACTED]		9	[REDACTED]	
10	[REDACTED]		10	[REDACTED]	
11	[REDACTED]		11	[REDACTED]	
12	[REDACTED]		12	[REDACTED]	
13	[REDACTED]		13	[REDACTED]	
14	[REDACTED]		14	[REDACTED]	
15	[REDACTED]		15	Q Okay.	12:04:18
16	[REDACTED]		16	A But that doesn't mean that the aggregate	
17	[REDACTED]		17	of the market was -- I mean, I could have a niche	
18	[REDACTED]		18	that was extraordinarily profitable, but I thought	
19	[REDACTED]		19	it was going to remain a niche, and a large	
20	[REDACTED]	12:01:53	20	fraction of my business that was less profitable,	12:04:33
21	[REDACTED]		21	but I thought it was going to bring in a large	
22	[REDACTED]		22	fraction. So the fact that they thought these	
23	[REDACTED]		23	feature phones had higher per-unit expected	
24	[REDACTED]		24	profits for them doesn't imply that this was a big	
25	[REDACTED]		25	part of their business. I just don't know the	12:04:47
		127			129

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<p>1 evidence on that. 12:04:49</p> <p>2 Q Whether it's a big part of the business or</p> <p>3 not, would you expect that a per-unit license for</p> <p>4 the technology that enables a more valuable device</p> <p>5 is going to be higher? 12:04:59</p> <p>6 A Yes. And I have estimated it, a royalty</p> <p>7 that's higher.</p> <p>8 Q Okay.</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 [REDACTED]</p> <p>12:06:01</p> <p>130</p>	<p>1 [REDACTED]</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 [REDACTED]</p> <p>132</p>
<p>1 [REDACTED] It was really up in the air, as I understand 12:06:03</p> <p>2 it, until Apple -- until Apple put out its phone,</p> <p>3 and it turned out to be a home run. And then people</p> <p>4 moved quickly towards smartphones.</p> <p>5 BY MR. NORTON: 12:06:23</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 [REDACTED]</p> <p>12:07:22</p> <p>131</p>	<p>1 [REDACTED]</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 MR. NORTON: We're a little past noon. I</p> <p>15 think I might have another hour, and then let 12:09:16</p> <p>16 Mr. Purcell ask his questions. If folks would like</p> <p>17 to break for lunch now, we can do that. I think</p> <p>18 lunch is here.</p> <p>19 THE WITNESS: Yeah. Are we off the</p> <p>20 record? 12:09:30</p> <p>21 MR. NORTON: We can go off the record.</p> <p>22 THE VIDEOGRAPHER: This marks the end of</p> <p>23 Disk 2 to the deposition of James Kearl. The time</p> <p>24 is now 12:09 p.m. And we're going off the record.</p> <p>25 (Lunch recess taken.) 12:09:42</p> <p>[REDACTED]</p>

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<p>1 [REDACTED]</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 [REDACTED]</p> <p>12:50:30</p>	<p>1 back-and-forth have been the same? I think not. 12:51:52</p> <p>2 Q If in the real world, Sun expressed a</p> <p>3 willingness to accept less of a benefit in exchange</p> <p>4 for the partnership with Google, wouldn't that</p> <p>5 suggest that, in the hypothetical negotiation, Sun 12:52:01</p> <p>6 would have demanded less, as well?</p> <p>7 MR. NORTON: Objection; form.</p> <p>8 THE WITNESS: No, but your assumption</p> <p>9 there is that they accepted less. I mean, they may</p> <p>10 have assumed that they were going to get, you 12:52:12</p> <p>11 know -- that the deal was better on the Project</p> <p>12 Armstrong side, and if so, then the reasonable</p> <p>13 royalty for the 2006 negotiations is more or less</p> <p>14 the same.</p> <p>15 BY MR. PURCELL: 12:52:28</p> <p>16 Q Is there any evidence, though, that Sun</p> <p>17 thought the deal would be better for them on the</p> <p>18 Project Armstrong side?</p> <p>19 MR. NORTON: Objection.</p> <p>20 THE WITNESS: That, I don't know. 12:52:33</p> <p>21 BY MR. PURCELL:</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 [REDACTED] 12:52:41</p> <p>138 140</p>
<p>1 [REDACTED]</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 Q In general, would you agree that the</p> <p>14 parties' course of conduct in bargaining is, to some</p> <p>15 extent, informative of how the parties would have 12:51:14</p> <p>16 handled the hypothetical negotiation around the same</p> <p>17 time?</p> <p>18 A I don't know. That's an interesting</p> <p>19 question because with the hypothetical</p> <p>20 negotiation, you're assuming, then, a whole set of 12:51:31</p> <p>21 things about the way that Android would have</p> <p>22 played out. And, you know, in part, yes, because</p> <p>23 we're obviously looking to those negotiations as a</p> <p>24 way of sort of providing some foundation for a --</p> <p>25 the hypothetical but, you know, would the 12:51:46</p> <p>139</p>	<p>1 [REDACTED]</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 Q Are you aware of any instance where Google</p> <p>10 agreed to a revenue sharing deal as part of an 12:53:12</p> <p>11 intellectual property license?</p> <p>12 A Yes.</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 Q Is that --</p> <p>23 A So in that sense, it's a revenue share.</p> <p>24 Q Are you aware of any deal where Google had</p> <p>25 agreed to share a percentage of Google's revenues as 12:54:00</p> <p>141</p>

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<p>1 part of a pure intellectual property license that 12:54:05 2 did not also involve distribution of Google content? 3 MR. NORTON: Objection; form. 4 THE WITNESS: I'm not sure what the last 5 clause in that question means, but it's my 12:54:19 6 understanding that Google, for placing the Google 7 widget on the boot-up screen or, at least, on the 8 screen that came up, shared revenues with OEMs. 9 BY MR. PURCELL: 10 Q Right. 12:54:37 11 Are you aware of any other case in which 12 Google wasn't placing the Google widget on startup 13 screens where it agreed to a revenue share deal in 14 exchange just for a license of intellectual 15 property? 12:54:49 16 A Not beyond the -- not beyond the two I 17 mentioned, no. 18 Q Not beyond the license with Java or Java 19 ME? 20 A Right. 12:54:58 21 Q And what was the second one? 22 A And the widget deals. 23 Q Leaving aside the widget, which is what 24 I'm defining as distribution of Google content -- 25 A Okay. 12:55:07</p>	<p>1 hypothetical negotiation? 12:56:10 2 MR. NORTON: Objection; form. 3 THE WITNESS: Less money than what? It 4 suggests that they were willing to accept less money 5 in the actual negotiations, so to the degree that 12:56:20 6 the actual negotiations are a model for the 7 hypothetical, the answer is yes. But if you mean 8 less than that, because it is a hypothetical, then I 9 don't know. 10 BY MR. PURCELL: 12:56:34 11 Q I actually meant the former. 12 So do you take account for the fact that, 13 in the real world, the last offer on the table 14 before negotiations broke down did not involve a 15 revenue share component in hypothesizing the 12:56:55 16 negotiation in your report? 17 A The only answer I can give you, 18 Mr. Purcell, is the one I just gave a few minutes 19 ago, which is I don't know what the clause means, 20 "other terms to be determined." To the degree 12:57:08 21 that was included in the revenue share on the part 22 of Sun, I just don't think we know. 23 Q If Sun had -- strike that. 24 [REDACTED] 25 [REDACTED] 12:57:24</p>
<p>1 Q -- just talking about a pure intellectual 12:55:07 2 property license, a license for a patent or a 3 copyright, are you aware of any instance other than, 4 I suppose, the Java ME deal where Google agreed to a 5 revenue share? 12:55:18 6 A No. 7 [REDACTED] 8 [REDACTED] 9 [REDACTED] 10 [REDACTED] 11 [REDACTED] 12 Let's assume that in real world 13 negotiations, Sun's initial position was that it 14 wanted \$100 million, plus a revenue share. 15 Are you with me so far? 12:55:49 16 A Uh-huh. 17 Q Okay. 18 And then by the time negotiations broke 19 off, Sun had agreed to drop its demand to 20 \$28 million without a revenue share. Again, this is 12:55:56 21 just an assumption; I'm not representing that as 22 fact. 23 But assuming those facts to be true, 24 wouldn't that suggest to you that Sun would have 25 been willing to accept less money in the 12:56:08</p>	<p>1 [REDACTED] 2 [REDACTED] 3 [REDACTED] 4 [REDACTED] 5 [REDACTED] 6 [REDACTED] 7 [REDACTED] 8 So if you look at the numerator of the 9 reasonable royalty fraction that I estimate, a 10 large -- the largest fraction of that, I mean, the 12:57:58 11 predominant number there is due to the monetization. 12 That's where Sun expected to get most of this. So 13 if you peel off these other numbers, they don't 14 change that ratio very much. 15 BY MR. PURCELL: 12:58:11 16 [REDACTED] 17 [REDACTED] 18 [REDACTED] 19 [REDACTED] 20 [REDACTED] 21 [REDACTED] 22 [REDACTED] 23 [REDACTED] 24 [REDACTED] 25 [REDACTED]</p>

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<p>1 [REDACTED] 2 [REDACTED] 3 [REDACTED] 4 [REDACTED] 5 [REDACTED] 6 [REDACTED] 7 [REDACTED] 8 [REDACTED] 9 [REDACTED] 10 [REDACTED] 11 [REDACTED] 12 [REDACTED] 13 [REDACTED] 14 [REDACTED] 15 [REDACTED] 16 [REDACTED] 17 [REDACTED] 18 [REDACTED] 19 [REDACTED] 20 [REDACTED] 21 [REDACTED] 22 [REDACTED] 23 [REDACTED] 24 [REDACTED] 25 [REDACTED]</p> <p>11 Q Are you aware of any other internal Sun material that's supportive of the data you used to estimate Project Armstrong revenues? 12 13 14 A Well, we used Google's projected numbers in the Project Armstrong; so to be fair, we're not 12:59:15 15 using what Dr. Leonard characterized as overly optimistic. 16 17 18 Q So you're not using the single Sun PowerPoint, you're using Google forecasts? 19 20 MR. NORTON: Objection; form. 12:59:32 21 THE WITNESS: We're using the single Sun forecast using Google's numbers rather than the Project Armstrong forecast of Android. 22 23 24 BY MR. PURCELL: 25 Q All right. 12:59:40</p> <p style="text-align: right;">146</p>	<p>1 Dr. Cockburn does. 01:00:52 2 Q Is the only thing that you're taking from the Google projection and importing into the Sun Project Armstrong projection the per-unit revenue number, or is there something else from Google? 01:01:01 3 4 5 6 A No, we take the -- import the number of units, as I remember, not the per-unit revenue. 7 8 Q Right. So, okay. I misspoke. 9 10 So is the only thing that you're importing from the Google projection into the Sun Project Armstrong projection the number of units to be activated? 01:01:15 11 12 13 A Yes. 14 Q And everything else, you're using the numbers from the Sun projection with the additional adjustments you just described? 01:01:24 15 16 17 A Yes. 18 Q One other thing that you discussed this morning related to your opinion on apportionment of the 2006 bundle. 01:01:39 19 20 21 Do you recall that? 22 A Uh-huh. 23 24 Q If you could just turn to Paragraph 97 of your report. I believe it's Paragraphs 97 through 105 discuss your opinion on apportionment of the 01:01:55 25</p> <p style="text-align: right;">148</p>
<p>1 So you're using Google's numbers with 12:59:41 2 respect to what? The number of units? 3 4 A Yeah, expected under these different scenarios. I think there's six different 12:59:51 5 projections; we take the high and the low, one from each of the high and the low. 6 7 Q All right. 8 9 So if you're using Google's numbers with respect to the per-unit projections as to Project Armstrong, what from the internal Sun projection are you using? 01:00:05 10 11 12 A We use their cost numbers, profit -- well, therefore, back out the profit -- the per-unit profit. Everything else we use from the Sun projections except we use Google's numbers in there. 01:00:23 13 14 15 16 17 We do a couple of other things. We discount them back, but we're using these projections over the life of the project rather than the three or four years in the PowerPoint presentation. 01:00:37 18 19 20 21 22 And we assume that these numbers are large enough that, loosely, there wouldn't be fixed costs of all the costs that were variable costs, so we've included more costs than, I think, 01:00:50 23 24 25</p> <p style="text-align: right;">147</p>	<p>1 2006 bundle, correct? 01:01:59 2 3 A Yes. 4 Q And your opinion, ultimately, is that no apportionment is economically appropriate? 5 6 A That's correct. 01:02:06 7 8 Q In fact, in Paragraph 101, you can take a look at that. 9 10 At the beginning of the last sentence, you state: 11 12 "In this case, the 2006 value of the in suit IP is also the 2006 value of the Java ME IP portfolio...." 01:02:20 13 14 Correct? 15 A Correct. 01:02:28 16 17 Q So are you assuming that only the two remaining patents in the case and the asserted copyrights out of all the IP in the 2006 bundle had value to Google in building Android? 18 19 20 A I'm not sure I understand the question. 01:02:53 21 22 What's assumed in this discussion is that what was valuable to Google in building Android was either the option to use what it needed to use or the insurance against litigation if it happened to 01:03:08 23 24 25</p> <p style="text-align: right;">149</p>

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1	trespass or infringe a patent or something in the	01:03:13	1	A Correct.	01:05:34
2	course of its independent development of a Java		2	Q Does the value in that section of your	
3	Virtual Machine for Android.		3	report, that attempts to isolate the value of just	
4	Q And what component of the total -- of the		4	the patents and copyrights in-suit absent any	
5	2006 portfolio would be attributable to these	01:03:26	5	insurance value or value for options not pursued?	01:05:45
6	options or this insurance as opposed to the IP that		6	A Correct.	
7	was actually used?		7	Q All right.	
8	MR. NORTON: Objection; form.		8	So back to the question that I asked, and	
9	THE WITNESS: Well, the argument here is		9	I appreciate the clarification.	
10	that the value that somebody would pay for the	01:03:40	10	When this case was initially filed, Oracle	01:05:57
11	portfolio is essentially the option. What I'm		11	asserted seven patents, correct?	
12	paying for is the option to use 0, 1, 2, 10, all,		12	A Correct.	
13	and to decide that at some later date.		13	Q And now we're down to two?	
14	BY MR. PURCELL:		14	A Yes.	
15	Q And have you done anything to disaggregate	01:03:52			
16	the value of the additional options not pursued from				
17	the value of the intellectual property in-suit?				
18	A No, because it's just a single option				
19	here, and the option is to go forward with the				
20	development of Android and not to worry about	01:04:07			
21	infringing copyrights because -- or patents				
22	because they either have a license to the				
23	technology or -- well, because I have a license to				
24	the technology, so I'm thinking of this as a				
25	single option for all of these.	01:04:20			
		150			152
1	Q And have you done anything to disentangle	01:04:26			
2	the value of having that certainty that you're not				
3	going to get sued for intellectual property				
4	violations from the value of just the two				
5	patents-in-suit in the asserted copyrights?	01:04:37			
6	A No.				
7	Q Initially, when this case was filed,				
8	Oracle asserted seven patents.				
9	Are you aware of that?				
10	A I am. Let me back up and clarify an	01:04:51			
11	answer I just gave you.				
12	There is an apportionment part of the				
13	paper later; so when you ask, have I done anything				
14	to apportion the value here, the answer is yes.				
15	And to the degree that the license value in 2006	01:05:05			
16	reflects an option value, that's what they were				
17	negotiating over, then to some degree that's -- if				
18	you've done apportionment correctly, perhaps you				
19	may have got some chunk of that. I don't know.				
20	But I have apportioned --	01:05:22			
21	Q The apportionment section is the following				
22	section of your report?				
23	A Yes.				
24	Q Section L that's entitled "Allocation of				
25	the 2006 IP Portfolio to the Patents in Suit."	01:05:31			
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<p>1 [REDACTED] [REDACTED] 2 [REDACTED] 3 [REDACTED] 4 [REDACTED] 5 [REDACTED] 6 [REDACTED] 7 [REDACTED] 8 [REDACTED] 9 [REDACTED] 10 [REDACTED] 11 [REDACTED] 12 [REDACTED] 13 [REDACTED] 14 [REDACTED] 15 [REDACTED] 16 [REDACTED] 17 [REDACTED] 18 [REDACTED] 19 BY MR. PURCELL: 20 Q And you're thinking of it as an ex ante 01:08:32 21 negotiation for an entire portfolio, not an ex ante 22 negotiation for two patents and 37 API packages? 23 A The way I start is to say, let's think 24 about what the portfolio was worth, okay, and then 25 ask, you know, does apportionment make sense? And 01:08:47</p> <p style="text-align: right;">154</p>	<p>1 in 2006 Google knows -- knew or expected what we 01:10:09 2 now know to be the case in 2012. The negotiation 3 in 2006 was over the stuff we're talking about in 4 2012. That was all I was saying is "if." 5 If they didn't know, then one really does 01:10:26 6 have to think about sort of an option value or an 7 insurance value. It's a little bit like -- I tried 8 to think about how to sort of get my head around 9 this. 10 Suppose I don't pay a subscription. I 01:10:43 11 subscribe to a magazine, I don't pay a 12 subscription. I get sued for failure to pay my 13 subscription, and I say, "Well, I only read one 14 page out of each hundred," okay? I mean, the ex 15 ante negotiations for the subscription is for the 01:10:57 16 full 100-page magazine. I don't get to say, after 17 the fact, "Gee, I only read one page." At least 18 that seems wrong from an economics perspective. 19 Q And why is that analogy opposite? Why is 20 this situation where one is negotiating over a 01:11:15 21 magazine subscription rather than negotiating over 22 two patents and 37 API packages? 23 A Because not knowing what Google needed, 24 in 2006 not knowing sort of the course of its 25 technological development, so it doesn't know 01:11:31</p> <p style="text-align: right;">156</p>
<p>1 the answer is no. But if apportionment is 01:08:52 2 required by the law, then here's an apportionment. 3 Q And why doesn't apportionment make sense? 4 A Well, for the three reasons that are 5 here that I've already discussed, which is, if 01:09:04 6 they knew that they wanted this intellectual 7 property, then that would have been the value of 8 the deal. 9 Q How do you know that? 10 A Because if I'm only negotiating over, 01:09:13 11 really, 37 APIs, plus two patents, and I've got 12 all this other stuff here, then the value that I'm 13 putting forward, the numbers I'm putting forward 14 are the value of those 39 things. 15 Q But when Google was negotiating the 01:09:33 16 license in 2006, it wasn't negotiating for a license 17 for two patents and 37 API packages, correct? 18 A That's correct, sure. 19 Q So how can you conclude that Google's 20 behavior in that real world negotiation over a 01:09:50 21 different set of objects necessarily is the same as 22 what Google would have been willing to pay for a 23 much smaller set of objects in the hypothetical 24 negotiation? 25 A I think you misunderstood me. I said if 01:10:03</p> <p style="text-align: right;">155</p>	<p>1 which of these it needs, all right? Think of 01:11:34 2 this -- my analogy here, inept may it be, I don't 3 know which of the 100 pages I want to read; I just 4 know I want to read one. Then I'd be willing to 5 pay the subscription price for the right to read 01:11:47 6 whatever page I wanted to read. 7 Q Doesn't the hypothetical negotiation in 8 this case presuppose a negotiation over just the 9 intellectual property in-suit? 10 A I understand that is what the law 01:12:01 11 requires. This opinion simply says that doesn't 12 make a lot of sense to an economist, but -- and 13 Judge Alsup asked for my best economic view, so 14 here it is. 15 Q So I know the answer to this question 01:12:16 16 already, but you've reviewed Judge Alsup's orders in 17 this case? 18 A I have. 19 Q And I'm sure you've read them carefully. 20 A I've read them carefully. 01:12:25 21 Q And you've reviewed the transcript of the 22 various hearings on challenges the damage experts 23 report in this case? 24 A I have. 25 Q Do you perceive any tension between your 01:12:32</p> <p style="text-align: right;">157</p>

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<p>1 opinion in Section K of your report and any of 01:12:33 2 Judge Alsup's orders or statements -- 3 MR. COOPER: Objection as to form. 4 MR. NORTON: Join. 5 THE WITNESS: I can imagine there will be 01:12:42 6 some tension, yes. 7 BY MR. PURCELL: 8 Q Do you intend to tell the jury that, in 9 your opinion, no apportionment of the 2006 IP bundle 10 is appropriate as a matter of economics? 01:12:50 11 A I expect I'll be permitted to tell the 12 jury what Judge Alsup tells me I can tell the 13 jury, so.... 14 Q That's a very diplomatic way of putting 15 it. 01:13:05 16 So moving forward just a little bit to 17 paragraph 118 of your report, there's a section on 18 "Other Copyright Damages," and it starts with a 19 section on "Disgorgement of Infringer's Profits." 20 A Yes. 01:13:27 21 Q Do you see that? 22 [REDACTED] 23 [REDACTED] 24 [REDACTED] 25 [REDACTED]</p>	<p>1 Q Is there any way you can narrow that range 01:14:37 2 based on the information that you have? 3 A Not really. Again, it's unclear who had 4 the obligation to put forward the argument here, 5 but since I have to rely on the record, that's 01:15:07 6 sort of what the experts have done, as opposed to 7 going out and doing this independently, there's 8 nothing in this record that I could use to make 9 that apportionment or that division. 10 Q If you were starting from scratch and one 01:15:21 11 of the parties retained you to address this 12 question, is there some set of information that you 13 would want them to provide to you so you could 14 apportion the percentage of Android profits 15 attributable to the alleged copyright infringement? 01:15:32 16 A As I indicated this morning, I think the 17 shift in market share is potentially useful but 18 has been excluded, so.... 19 But if I were to do it, I would probably 20 look at the shift in the market share. What 01:15:55 21 fraction of the incremental revenues was due to the 22 incremental market share due to the APIs. 23 Q So would that be along the lines of 24 looking at the benefits provided to Android by the 25 copyrighted APIs and then the incremental increase 01:16:14</p>
<p>1 Q And then in Paragraph 122, the next 01:13:45 2 paragraph, you state that neither party has offered 3 a viable methodology for separating out Android 4 profits attributable to the infringement versus 5 Android profits not attributable to the 01:13:58 6 infringement? 7 A Correct. 8 Q And then paragraph 124 on the next page 9 starts with: 10 "Based on the admissible 01:14:10 11 evidence in this matter, I am not 12 aware of a quantitative method to 13 estimate the percent of Android 14 revenue or profit that is due to 15 the alleged copyright 01:14:18 16 infringement." 17 Do you see that? 18 A Yes. 19 Q And as a result of that, you conclude that 20 the percentage of Android profit attributable to the 01:14:24 21 alleged copyright infringement is not zero but less 22 than 100 percent, correct? 23 A Yes. 24 Q That's a pretty broad range. 25 A It is. 01:14:36</p>	<p>1 in market share as a result of those benefits being 01:16:18 2 in the software? 3 A Correct. 4 Q And what's your understanding regarding 5 what benefits the copyrighted APIs provide to the 01:16:26 6 Android platform, if any? 7 A That's a technical issue. I'll tell you 8 my understanding of it but not -- it's not an 9 opinion in that sense. 10 That it provided a couple of benefits 01:16:40 11 sort of going forward, that is, in 2006. I think 12 the record suggests, or at least there's argument 13 in the record that Google believed that it needed a 14 Java-based platform. It needed to appeal to Java 15 application writers or people who would write in 01:17:01 16 Java. 17 The OEMs were accustomed to using Java, 18 in fact, were taking Java ME licenses, many of 19 them. And, therefore, having APIs that said, if 20 you write in your accustomed fashion, an 01:17:16 21 application, it's going to work on this new machine 22 or this new virtual machine and/or the 23 modifications you have to make aren't very large; 24 that is, it's kind of within the genre of -- of -- 25 that was one benefit to them. 01:17:43</p>

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<p>1 And the second benefit, as I understand 01:17:45</p> <p>2 it, there is some evidence that getting to the</p> <p>3 market quickly mattered, and to the degree that</p> <p>4 there's testimony in evidence at trial that shows</p> <p>5 that getting to the market quickly was really the 01:18:00</p> <p>6 principal way to do that was through Java, then it</p> <p>7 had that benefit, as well.</p> <p>8 Q You looked at Dr. Shugan's conjoint</p> <p>9 analysis as part of your work in this case, correct?</p> <p>10 A I did. 01:18:15</p> <p>11 Q And Dr. Shugan, his conjoint analysis</p> <p>12 included some testing and evaluation of the relative</p> <p>13 importance of certain features of a smartphone</p> <p>14 platform to consumers?</p> <p>15 A Correct. 01:18:29</p> <p>16 Q And I believe Dr. Shugan tested seven</p> <p>17 features of smartphone platforms in his conjoint</p> <p>18 analysis; is that correct?</p> <p>19 A Correct.</p> <p>20 Q And I think that you write in your report 01:18:47</p> <p>21 that Dr. Shugan's omission of other potentially</p> <p>22 relevant features of a smartphone platform might</p> <p>23 have balanced his relative importance results,</p> <p>24 correct?</p> <p>25 MR. NORTON: Objection; form. 01:18:59</p> <p style="text-align: right;">162</p>	<p>1 So I suggest that it has -- it's useful 01:20:13</p> <p>2 for that limited purpose, maybe not for some other</p> <p>3 purposes, but -- but I also didn't go off and do</p> <p>4 some econometrics in which we pull in applications</p> <p>5 and get numbers that aren't a lot different than 01:20:28</p> <p>6 the conjoint from actual market behavior, so...</p> <p>7 Q If we could turn to Paragraph 203, and</p> <p>8 this actually, I think, is in the following exhibit.</p> <p>9 In the last sentence of Paragraph 203, you write:</p> <p>10 "However, the direction of 01:21:11</p> <p>11 bias on Professor Shugan's results</p> <p>12 caused by these omitted features is</p> <p>13 ambiguous and can only be fully</p> <p>14 assessed if a new survey were</p> <p>15 conducted that included the omitted 01:21:20</p> <p>16 features."</p> <p>17 Do you see that?</p> <p>18 A Correct.</p> <p>19 Q That's what we've just been discussing?</p> <p>20 A Yes, with regard to the market share 01:21:25</p> <p>21 estimates. Well, the potential bias in these</p> <p>22 coefficients which might cancel out when you're</p> <p>23 doing a ratio.</p> <p>24 Q Let's leave the market share calculations</p> <p>25 aside and just talk about the relative importance 01:21:35</p> <p style="text-align: right;">164</p>
<p>1 THE WITNESS: No. 01:19:00</p> <p>2 BY MR. PURCELL:</p> <p>3 Q Did I say "balanced"?</p> <p>4 A Yes, you did.</p> <p>5 Q I meant to say "biased," excuse me. Let 01:19:02</p> <p>6 me say that again.</p> <p>7 In your report, you concluded that</p> <p>8 Dr. Shugan's omission of other potentially relevant</p> <p>9 smartphone platform features might have biased his</p> <p>10 relative importance results, correct? 01:19:17</p> <p>11 A Well, no, that's not quite correct.</p> <p>12 There are two different kinds of biases here. I</p> <p>13 think the -- my pretty extensive analysis of</p> <p>14 conjoint suggests that it's likely to be biased;</p> <p>15 that it omitted important things. Which direction 01:19:35</p> <p>16 those biases go is a very hard thing to tease out.</p> <p>17 With regard to the market share forecast</p> <p>18 and predictions which use -- and I'm not speaking</p> <p>19 loosely here -- use sort of a coefficient that's</p> <p>20 estimated, that bias is likely to matter. In the 01:19:54</p> <p>21 relative share, you have -- it's a ratio of</p> <p>22 coefficients, and to the degree that the bias is</p> <p>23 the same and the numerator and the denominator, it</p> <p>24 cancels out, and you get an accurate estimate of</p> <p>25 the relative share. 01:20:08</p> <p style="text-align: right;">163</p>	<p>1 features. 01:21:37</p> <p>2 With the relative importance features, do</p> <p>3 you have any particular opinion about the degree of</p> <p>4 bias in Dr. Shugan's relative importance features?</p> <p>5 A The paragraph says it's ambiguous. It's 01:21:51</p> <p>6 difficult to know which way the bias goes.</p> <p>7 Q But are you reasonably confident that the</p> <p>8 bias isn't particularly significant in either</p> <p>9 direction?</p> <p>10 A No, I'm not, but again, loosely, this is 01:22:01</p> <p>11 the difference between using a coefficient to</p> <p>12 forecasting and looking at the ratio of the</p> <p>13 coefficients. And if you look at the ratio of the</p> <p>14 coefficients, you could have substantial bias in</p> <p>15 the numerator/denominator, and as long as it's the 01:22:17</p> <p>16 same percentage, then it cancels out and you get a</p> <p>17 more or less accurate estimate of the relative.</p> <p>18 So to the degree that we're talking about</p> <p>19 speed relative to applications and that those are</p> <p>20 accurately measured by the proxies he uses, then 01:22:34</p> <p>21 even if they're biased, as long as they're biased</p> <p>22 in the same direction by roughly the same amount,</p> <p>23 you get the right ratio.</p> <p>24 Q You mentioned some econometric work that</p> <p>25 you did to validate Dr. Shugan's conclusions? 01:22:47</p> <p style="text-align: right;">165</p>

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<p>1 A I wasn't trying to validate his 01:22:51 2 conclusions. I was simply looking at an 3 independent way of trying to assess the importance 4 of speed versus applications. 5 Q And what work did you do to try to assess 01:23:00 6 the importance of speed versus applications? 7 A This is a long answer. 8 Q That's fine. 9 A Dr. Cockburn uses -- first, uses eBay 10 data and I use the eBay data. I use the same data 01:23:19 11 he does. He then uses an approach in which he 12 writes his own maximum likelihood function and 13 runs an algorithm to maximize that. He does 14 what's known in economics as a bootstrap, which is 15 a way of getting at the standard errors of the 01:23:39 16 coefficient, yes, the standard errors of the 17 coefficient. 18 When we implemented his -- we just took 19 his stuff and implemented. It takes, literally, 20 240 computer hours to run, so it's 10 days from 01:24:00 21 when you push the button until something pops out 22 the other end. 23 Dr. Leonard's criticism of Dr. Cockburn 24 was that he could write a likelihood function that 25 could be estimated much simpler that was the 01:24:15</p> <p style="text-align: right;">166</p>	<p>1 .5 as the ratio of these. We cannot find that 01:26:02 2 number in the conjoint analysis; it's nowhere to be 3 found. The number that comes out of the conjoint 4 analysis is .7, so -- and Dr. Cockburn just has a 5 single sentence in his report that says: "From the 01:26:19 6 conjoint analysis, I have learned --" or something 7 to the effect -- "that it's .5." 8 No reference, no footnote, no cite to the 9 table or anything. So that's where we are in that. 10 You can think about the econometrics as validation, 01:26:36 11 if you want, of the conjoint or an independent way 12 of looking at the relative value. 13 In my analysis in the -- back in the 14 Reasonable Royalty section, I used .8. I just take 15 the simple mean between .7 and .9 of the two 01:26:55 16 different kinds of estimates. 17 And were The Court to find that the 18 conjoint -- or the jury to find the conjoint wasn't 19 reliable for a whole set of reasons, I have an 20 independent estimate of the value of the -- an 01:27:10 21 independent way of apportioning the copyrights that 22 I don't think anybody else has at this point. 23 Q All right. 24 And what's your independent way of 25 apportioning the copyrights? 01:27:23</p> <p style="text-align: right;">168</p>
<p>1 equivalent of Dr. Leonard's -- Dr. Cockburn. In 01:24:20 2 fact, he didn't need to write it; he could simply 3 use a canned program to do this. And if you use 4 his program, it takes a tenth of the time; it takes 5 12 hours or 10 hours. 01:24:34 6 So in all of the econometrics I did, I 7 did the Dr. Leonard implementation. I did not do 8 the Dr. Cockburn. 9 Now, we tested the difference, and the 10 coefficients are more or less the same in the two 01:24:50 11 to sort of the second decimal place; sometimes 12 they're a little bit higher, sometimes a little bit 13 lower. So it appears that using the more 14 simplified approach of Dr. Leonard gets you into 15 the same -- gets you roughly the same. So that's 01:25:08 16 the long lead into this. 17 Using that approach, then we went out and 18 retrieved information on applications and on the 19 various phones, brought that applications data in 20 and meshed it with the data that Dr. Cockburn had 01:25:29 21 used and estimated a version of the Cockburn model 22 using the Leonard technique with applications and 23 find that the ratio of speed to applications is 24 about .9 -- so applications to speed is about .9. 25 One other observation: Dr. Cockburn uses 01:25:58</p> <p style="text-align: right;">167</p>	<p>1 A It would be the econometric. 01:27:24 2 Q That you just described? 3 A Yes. 4 Q Okay. 5 Just wanted to be sure you weren't leading 01:27:31 6 into something else that you had done. 7 A No. 8 Q So we've gone through the universe of 9 everything you've done with respect to your 10 econometric analysis on copyright apportionment? 01:27:38 11 A Yes. I mean, there are lots of details 12 in the econometrics themselves, but that's the big 13 picture. 14 Q Dr. Shugan and Dr. Cockburn use -- strike 15 that. 01:27:55 16 In Dr. Shugan's and Dr. Cockburn's view, 17 the primary benefit provided to Android by the 18 copyrighted APIs was an increased number of 19 applications, correct? 20 MR. NORTON: Objection. 01:28:07 21 THE WITNESS: Correct. 22 BY MR. PURCELL: 23 Q And they use -- 24 Dr. Cockburn uses, essentially, an 25 increased number of applications as a proxy for the 01:28:13</p> <p style="text-align: right;">169</p>

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<p>1 benefits provided by the copyrighted APIs, correct? 01:28:16</p> <p>2 A That's correct.</p> <p>3 Q Can you take a look at Paragraph 303 of</p> <p>4 your report?</p> <p>5 Paragraph 303, you write: 01:28:33</p> <p>6 "Professor Shugan reports</p> <p>7 relative importance estimates of</p> <p>8 7.85 percent and 11.17 percent for</p> <p>9 availability of applications and</p> <p>10 applications startup time, 01:28:43</p> <p>11 respectively."</p> <p>12 Do you see that?</p> <p>13 A Yes.</p> <p>14 Q So he uses a relative importance figure of</p> <p>15 7.85 percent for availability of applications, 01:28:50</p> <p>16 Professor Shugan?</p> <p>17 A Yes.</p> <p>18 Q Would he be reasonable to use that</p> <p>19 7.85 percent figure as an estimate of the percentage</p> <p>20 of Android revenue attributable to the copyrighted 01:29:05</p> <p>21 APIs as opposed to other features of the Android</p> <p>22 software?</p> <p>23 MR. NORTON: Object.</p> <p>24 THE WITNESS: In what setting? I'm not</p> <p>25 sure -- 01:29:18</p> <p style="text-align: right;">170</p>	<p>1 Cockburn, which is, what's the change in the market 01:30:34</p> <p>2 share attributable to that, and then sort of back</p> <p>3 out sort of what the revenue effects of that change</p> <p>4 in market share are. You've got to go from this</p> <p>5 utility measure to some measure of sort of how that 01:30:46</p> <p>6 affects the prospects in the market, and there's no</p> <p>7 way to go from 7.85 percent utility effect to a</p> <p>8 revenue effect just by making -- by applying it</p> <p>9 directly to util- -- to revenue.</p> <p>10 BY MR. PURCELL: 01:31:02</p> <p>11 Q And do you have any methodology in mind</p> <p>12 for translating the 7.85 percent utility effect into</p> <p>13 a market share effect?</p> <p>14 A Well, that's been excluded by -- by</p> <p>15 Judge Alsup. Apparently, the Sawtooth software 01:31:18</p> <p>16 has a button you push, and it tells you what</p> <p>17 happens to the market share. That's the button</p> <p>18 that Dr. Shugan pushed. So it translates it by</p> <p>19 sort of looking at all of the other sort of</p> <p>20 relative utility effects, utility from the 01:31:37</p> <p>21 different kinds of things.</p> <p>22 But that's been excluded because, as I</p> <p>23 understand the argument that Dr. Leonard made and</p> <p>24 Judge Alsup and the part in Google is that because</p> <p>25 of the bias, the potential bias in that number, you 01:31:52</p> <p style="text-align: right;">172</p>
<p>1 BY MR. PURCELL: 01:29:19</p> <p>2 Q Well, in the sense of disaggregating the</p> <p>3 inputs to Android revenues that are not due to the</p> <p>4 copyrighted APIs?</p> <p>5 A I don't think so, no. 01:29:28</p> <p>6 Q Why not?</p> <p>7 A Well, the conjoint analysis doesn't</p> <p>8 really get to revenues. It gets -- purportedly,</p> <p>9 it's an estimate of the utility that people place</p> <p>10 on things, but there's no way to go -- at least, I 01:29:39</p> <p>11 don't see an easy path from there to revenues.</p> <p>12 Q If 7.85 percent of consumers are most</p> <p>13 influenced by the availability of applications, it</p> <p>14 wouldn't be reasonable to assume that roughly</p> <p>15 7.85 percent of the benefit provided by the software 01:29:57</p> <p>16 is due to the availability of applications?</p> <p>17 A I don't think so.</p> <p>18 Q How would you go about translating, if you</p> <p>19 could, that 7.85 percent figure into an</p> <p>20 apportionment of the value of the software 01:30:12</p> <p>21 attributable to the APIs that enable the</p> <p>22 availability of applications?</p> <p>23 MR. NORTON: Objection.</p> <p>24 THE WITNESS: I think you have to do it</p> <p>25 the way that Professor Shugan does and Professor 01:30:28</p> <p style="text-align: right;">171</p>	<p>1 can't get a reliable estimate of the market share 01:31:56</p> <p>2 change.</p> <p>3 Q Other than the Sawtooth method that</p> <p>4 Judge Alsup excluded, can you think of any other way</p> <p>5 to go from the 7.85 percent relative consumer 01:32:08</p> <p>6 preference figure to a market share figure?</p> <p>7 A No.</p> <p>8 Q If you were asked to estimate the likely</p> <p>9 change in market share if the copyrighted APIs were</p> <p>10 removed from the Android software, what -- what 01:32:33</p> <p>11 would you do?</p> <p>12 MR. NORTON: Object.</p> <p>13 THE WITNESS: I would use the</p> <p>14 econometrics.</p> <p>15 BY MR. PURCELL: 01:32:46</p> <p>16 Q How would you go about using the</p> <p>17 econometrics to translate the consumer preference</p> <p>18 share into a market share number?</p> <p>19 A Well, you can use the econometrics to</p> <p>20 predict the reduction in willingness to pay, and 01:32:58</p> <p>21 then, you know, there's dispute on all of these</p> <p>22 matters, and I understand that; I'm not here to</p> <p>23 resolve that dispute.</p> <p>24 But then you could then use parties -- I</p> <p>25 think Dr. Cockburn did something that was 01:33:10</p> <p style="text-align: right;">173</p>

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1 reasonably innovative and creative here, which is 01:33:11	1 look at applications in this case. The conjoint 01:35:38
2 to look at parties that were bidding -- individuals	2 analysis appears to be quite seriously biased
3 who were bidding on two different phones, two	3 or -- it's got some problems that keep it from
4 different operating systems, within a reasonable	4 being very useful in that regard, so I think you
5 period of time and asking if the willingness to pay 01:33:22	5 had to move some other place. 01:35:58
6 fell below a certain level, would they switch the	6 Q Prior to Judge Alsup's excluding the
7 phones -- switch from one -- from an Android to	7 econometric analysis, have you reached any tentative
8 another non-Android phone.	8 conclusions about the drop in market share that
9 And if they did, you just count that up	9 would be likely if the copyrighted APIs weren't
10 and divide by the number of people in the 01:33:37	10 available to Google? 01:36:10
11 population, or the sample you're looking at, and	11 A No, we never finished that analysis.
12 that's a measure of the market share shift due to	12 Q You didn't have any preliminary results
13 that effect. You could do exactly the same thing	13 that would shed any light on that?
14 with -- with applications as he did with speed.	14 A We have the coefficient. We could back
15 But to get there, as I indicated earlier this 01:33:54	15 it out pretty quickly but -- we used a coefficient 01:36:20
16 morning, you then have to deal with -- with the	16 for purposes of the relative speed versus
17 problem of the phone price not changing when the	17 application, but we never did the calculation, to
18 relative -- when the willingness to pay for that,	18 my knowledge. I don't recall having done the
19 so the consumer surplus -- consumer surplus falls,	19 calculation.
20 and the question is, what would that do to the 01:34:10	20 Q Is the coefficient for the speed versus 01:36:34
21 price?	21 applications, is that in the report or appendices
22 It got excluded on that basis, and I have	22 somewhere?
23 not done further work on that because of the	23 A It is, it is.
24 exclusion, but that, at least, is a sensible place	24 Q Could you actually direct me to it?
25 to start. And as I said this morning, it doesn't 01:34:26	25 A Sure. It's Paragraph 401, and Exhibit 01:36:47
174	176
1 make sense to argue that price would go down 01:34:29	1 F10 provides, I think, the estimate of 01:37:24
2 because that's the price the OEMs are selling this	2 coefficients. 401 is the paragraph that describes
3 at. It's not Google that's selling these phones.	3 the results.
4 So it's hard to believe that Google could	4 Q Thank you.
5 put a product out in the market that was less 01:34:39	5 I'd like to talk a little bit about your 01:37:40
6 functional and expect the OEMs to eat the	6 analysis of Oracle's and Sun's lost profits from
7 consequences of that, but you'd have to think about	7 Java ME.
8 how the shift would occur in that case, and you	8 A Yes.
9 might be able to do it as a composite between the	9 Q Just to orient you, that discussion starts
10 market share change and some predicted price 01:34:53	10 on Paragraph 126 of your report at page 50. 01:37:54
11 change.	11 [REDACTED]
12 In either case, assuming that Google has	[REDACTED]
13 to make it up to the OEMs, it's a revenue decline	[REDACTED]
14 for Google, and as I said this morning, it's not	[REDACTED]
15 clear to me that just looking at the market share 01:35:06	[REDACTED] 01:38:18
16 shift below and assuming the cost price doesn't	[REDACTED]
17 change doesn't get you in about the right place.	[REDACTED]
18 But once Judge Alsup cut that off, we	[REDACTED]
19 quit working on it.	[REDACTED]
20 Q So had Judge Alsup not excluded that piece 01:35:20	[REDACTED] 01:38:29
21 of the econometric analysis, do you think you could	21 Q And in Paragraph 139, that paragraph
22 have used that econometric analysis to estimate	22 starts off with the statement:
23 change in market share?	23 "However, while I agree some
24 A Yes, we were prepared to with what we	24 apportionment of Java ME lost
25 call the enhanced econometric model to actually 01:35:35	25 profits to the iPhone is 01:38:49
175	177

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<p>1 [REDACTED]</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 [REDACTED]</p> <p>01:52:05</p>	<p>1 [REDACTED]</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 Q I realize this is a legal question, and so</p> <p>8 I'm not asking for anything precise, but what's your</p> <p>9 general understanding of the way the law treats that</p> <p>10 prohibition on double recovery in copyright damages? 01:53:42</p> <p>11 MR. COOPER: Objection as to form.</p> <p>12 MR. NORTON: Join.</p> <p>13 THE WITNESS: I don't remember which way</p> <p>14 the law goes, but you get disgorgement and lost</p> <p>15 profits so long as they don't count the same thing. 01:53:56</p> <p>16 What I don't know is whether you start with</p> <p>17 disgorgement and then sort of go to the lost profits</p> <p>18 or go to lost profits and then go to disgorgement.</p> <p>19 BY MR. PURCELL:</p> <p>20 Q Does your opinion analyze whether there's 01:54:08</p> <p>21 any overlap between these different measures of</p> <p>22 copyright damages?</p> <p>23 A It tries to in the following way:</p> <p>24 That -- that -- let me preface this by saying that</p> <p>25 what the but-for world looks like is not 01:54:35</p> <p>186 188</p>
<p>1 [REDACTED]</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 [REDACTED]</p> <p>01:53:11</p>	<p>1 particularly well specified, I think, by the 01:54:38</p> <p>2 experts on either side. So presumably the but-for</p> <p>3 world is an Android product that is in the market</p> <p>4 but doesn't use any Sun intellectual property.</p> <p>5 And so what you want to think about, then, is the 01:55:02</p> <p>6 substitutes -- what's a substitute, what's a</p> <p>7 complement and what's a substitute that's been</p> <p>8 embedded in the -- in the actual Android product.</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 [REDACTED]</p> <p>01:56:17</p> <p>187 189</p>

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<p>1 [REDACTED]</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 [REDACTED]</p> <p>190</p>	<p>1 A I don't think so. 01:59:07</p> <p>2 MR. PURCELL: All right. That's all I've</p> <p>3 got. We can go off the record.</p> <p>4 THE VIDEOGRAPHER: The time is now</p> <p>5 1:59 p.m. and we're going off the record. 01:59:29</p> <p>6 (Brief pause in proceedings.)</p> <p>7 THE VIDEOGRAPHER: The time is now</p> <p>8 2:01 p.m. and we're back on the record.</p> <p>9 FURTHER EXAMINATION</p> <p>10 BY MR. NORTON: 02:01:46</p> <p>11 Q All right. I want to talk a little bit</p> <p>12 about the econometrics.</p> <p>13 A Okay.</p> <p>14 Q Now, you conclude that the -- Professor</p> <p>15 Cockburn's econometric analysis is generally useful 02:01:54</p> <p>16 and reliable for estimating consumer willingness to</p> <p>17 pay for both speed and applications?</p> <p>18 A Yes.</p> <p>19 Q And then you actually calculate</p> <p>20 willingness to pay for increased speed and for 02:02:10</p> <p>21 applications; is that correct?</p> <p>22 A Correct.</p> <p>23 Q Now, I want to go through a few points on</p> <p>24 Professor Cockburn's analysis.</p> <p>25 He uses eBay data in his econometrics 02:02:22</p> <p>192</p>
<p>1 [REDACTED]</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 [REDACTED]</p> <p>23 Q All right.</p> <p>24 So you don't believe you have any sort of</p> <p>25 double counting or double recovery problem? 01:59:04</p> <p>[REDACTED]</p> <p>193</p>	<p>1 analysis, correct? 02:02:25</p> <p>2 A Correct.</p> <p>3 Q And you agree that that's appropriate?</p> <p>4 A I think I'm a bit more cautious about</p> <p>5 that which is to say that, you know, in fairness, 02:02:33</p> <p>6 we'd like to have information on new phone</p> <p>7 purchases, but new phone purchases are embedded in</p> <p>8 plans that are impossible -- so it's impossible to</p> <p>9 disentangle the phone from the plan. And in those</p> <p>10 cases, the economists look for reasonable proxies, 02:02:51</p> <p>11 and the eBay data strikes me as a reasonable</p> <p>12 proxy, but it has embedded in it an assumption</p> <p>13 that I've not tested, and I don't think anybody</p> <p>14 else can test, and that is that the -- and here</p> <p>15 I'm using "relative" in a very loose way, but the 02:03:08</p> <p>16 relative preferences for used phones are the same</p> <p>17 as the relative preferences for new phones.</p> <p>18 And all I mean by that is that since the</p> <p>19 econometric estimates what economists term</p> <p>20 "elasticities," that the elasticity response here 02:03:23</p> <p>21 is the same for both used and new phone buyers to</p> <p>22 the degree that eBay phones are used phones. I</p> <p>23 don't think all of them are but to the degree they</p> <p>24 are. So there is that assumption that lets you go</p> <p>25 from the proxy to measuring what you really want to 02:03:40</p> <p>193</p>

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<p>1 measure. 02:03:45</p> <p>2 Q Do you know whether Professor Cockburn's</p> <p>3 analysis of eBay data included new phones?</p> <p>4 A I don't. I mean, they're stripped</p> <p>5 phones, so I don't know -- I'd have to go back and 02:03:56</p> <p>6 look at the data. I don't recall.</p> <p>7 Q So you're not aware of whether Professor</p> <p>8 Cockburn has actually analyzed whether the effect on</p> <p>9 its econometrics analysis if you look exclusively at</p> <p>10 the new phones -- 02:04:07</p> <p>11 A No, as I recall, he did that and gets</p> <p>12 about the same results.</p> <p>13 Q And do you disagree with his conclusion</p> <p>14 that when he focuses exclusively on new phones, he</p> <p>15 gets the same results? 02:04:18</p> <p>16 A No, I don't. As I indicated in both the</p> <p>17 conjoint analysis and the econometric analysis,</p> <p>18 the first thing we did, as I think in response to</p> <p>19 Judge Alsup's charge, was to simply ask whether it</p> <p>20 was implemented as represented it was implemented, 02:04:35</p> <p>21 and we were able to replicate Professor Cockburn's</p> <p>22 work, all of his work, and Professor Shugan's</p> <p>23 work, all of their work.</p> <p>24 Q But it's your opinion that use of eBay</p> <p>25 data in Professor Cockburn's econometric study is a 02:04:49</p> <p style="text-align: right;">194</p>	<p>1 And I assume that Dr. Leonard must not have seen it 02:06:05</p> <p>2 because he doesn't criticize it, but you can put in</p> <p>3 an alternative auxiliary regression that does make</p> <p>4 sense in which the coefficients have the right</p> <p>5 signs, for example, and get results similar to 02:06:23</p> <p>6 Professor Cockburn's.</p> <p>7 Again, let me make sure that the answer</p> <p>8 here is understood in the same context as my</p> <p>9 earlier answers with Mr. Purcell, which is, I'm</p> <p>10 using the Leonard implementation of the Cockburn 02:06:43</p> <p>11 model; I'm not estimating the 240-hour estimation</p> <p>12 every time.</p> <p>13 Q Right. Okay.</p> <p>14 And the fix that you described of</p> <p>15 Professor Cockburn's econometric analysis, that had 02:06:59</p> <p>16 to do with patents that are no longer in this</p> <p>17 lawsuit?</p> <p>18 A Yes.</p> <p>19 Q Now, the -- you have an enhanced model for</p> <p>20 willingness to pay, correct? 02:07:14</p> <p>21 A Correct.</p> <p>22 Q And you calculated a willingness to pay</p> <p>23 value for the incremental speed benefits associated</p> <p>24 with the '104 patent, right?</p> <p>25 A Well, I estimated, to be technical -- 02:07:32</p> <p style="text-align: right;">196</p>
<p>1 reasonable proxy? 02:04:53</p> <p>2 A Yes.</p> <p>3 Q And then you're aware of the critiques</p> <p>4 that Dr. Leonard has made of the econometrics</p> <p>5 analysis; is that right? 02:05:00</p> <p>6 A I am.</p> <p>7 Q And you considered those in your report?</p> <p>8 A I have.</p> <p>9 Q And you, nonetheless, conclude that the</p> <p>10 econometrics analysis is useful and reliable -- 02:05:07</p> <p>11 A Yes.</p> <p>12 Q -- as performed by Professor Cockburn?</p> <p>13 A Yes, with one exception. There is --</p> <p>14 and it has to do with the memory patents that are</p> <p>15 excluded. Professor Cockburn did a fix for that 02:05:25</p> <p>16 that I think is problematic. Until that part of</p> <p>17 the -- until those patents were dropped, I did a</p> <p>18 fix that I think is better, but it was a fix, and</p> <p>19 my fix gets tighter results but roughly the same</p> <p>20 results as his fix did but is easier to interpret 02:05:47</p> <p>21 and easier to implement.</p> <p>22 This is an auxiliary regression. It</p> <p>23 turns out it's embedded in the code so you actually</p> <p>24 don't see the regression output, but if you see the</p> <p>25 regression output, it doesn't make a lot of sense. 02:06:02</p> <p style="text-align: right;">195</p>	<p>1 I'm careful here. I estimated the speed benefits 02:07:34</p> <p>2 associated with the Linpack score, and as I made</p> <p>3 clear in my report, I'm not opining on the</p> <p>4 technical effect of the patents. That's a</p> <p>5 different issue, but I've assumed that technical 02:07:46</p> <p>6 effect of the patent is what the Oracle engineers</p> <p>7 have said it is and then gone forward with that</p> <p>8 assumption.</p> <p>9 Q Oracle engineers conducted tests that</p> <p>10 would indicate the -- according to them, the effect 02:08:01</p> <p>11 of removing the '104 patent and the '205 patent from</p> <p>12 an Android phone, correct?</p> <p>13 A That's correct.</p> <p>14 Q And you rely on their tests?</p> <p>15 A Yes. 02:08:12</p> <p>16 Q And there are no Google tests, correct?</p> <p>17 A That's correct.</p> <p>18 Q And the Linpack score, you agree, is a</p> <p>19 useful proxy for the speed that consumers care</p> <p>20 about? 02:08:23</p> <p>21 A Yes, in the sense that -- it's a useful</p> <p>22 proxy in that it bridges from the patent to</p> <p>23 something that you can measure. It's useful in</p> <p>24 that sense. I mean, we're sort of stuck with the</p> <p>25 Linpack score, like it or not, because it's the 02:08:49</p> <p style="text-align: right;">197</p>

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<p>1 score in which the patents' effect on speed was 02:08:53</p> <p>2 measured. So in that sense, it's useful and it</p> <p>3 has -- has regression validity in the sense that</p> <p>4 it has coefficients that have, you know, standard</p> <p>5 errors that make it reliable estimates of the 02:09:08</p> <p>6 coefficients for that, but we use it because of</p> <p>7 the fact that it's tied to the patents.</p> <p>8 Q And then when you did your willingness to</p> <p>9 pay analysis, you assumed that the -- there would be</p> <p>10 an 80 percent reduction in the Linpack score if the 02:09:34</p> <p>11 '104 patent were not included in the Android phone,</p> <p>12 correct?</p> <p>13 A Approximately 80 percent, yes.</p> <p>14 Q And you described that 80 percent estimate</p> <p>15 as conservative, correct? 02:09:46</p> <p>16 A Yes.</p> <p>17 Q And by "conservative," that means that</p> <p>18 your use of it would tend to understate willingness</p> <p>19 to pay?</p> <p>20 A Could, yes. 02:09:56</p> <p>21 Q Now, the -- you conclude that consumers</p> <p>22 would pay an additional \$21 more for an average</p> <p>23 priced Android phone if it had the incremental speed</p> <p>24 benefits of the '104 patent indicated by the Linpack</p> <p>25 test; is that right? 02:10:17</p> <p style="text-align: right;">198</p>	<p>1 report -- let me know if you're there. 02:11:59</p> <p>2 A I'm there.</p> <p>3 Q You state:</p> <p>4 "The marginal value</p> <p>5 contribution of the patents and 02:12:14</p> <p>6 copyrights in suit is substantial."</p> <p>7 A I'm sorry, 41?</p> <p>8 Q Paragraph 41.</p> <p>9 MR. COOPER: Oh, Paragraph 41.</p> <p>10 MR. NORTON: Did I say "Page"? 02:12:22</p> <p>11 MR. COOPER: I thought you said "Page 41."</p> <p>12 Sorry.</p> <p>13 THE WITNESS: Yes.</p> <p>14 BY MR. NORTON:</p> <p>15 Q So you state there: 02:12:28</p> <p>16 "The marginal value</p> <p>17 contribution of the patents and</p> <p>18 copyrights in suit is substantial."</p> <p>19 A Yes.</p> <p>20 Q And there, are you referring to what's 02:12:34</p> <p>21 indicated by the engineering assessments and the</p> <p>22 willingness to pay?</p> <p>23 A Yes. I put it slightly differently,</p> <p>24 which is, I'm looking at the econometric</p> <p>25 evaluation of the willingness -- of the technical 02:12:51</p> <p style="text-align: right;">200</p>
<p>1 A Do you want to refer me to the -- 02:10:19</p> <p>2 Q Sure, I'm sorry. I think you can look at</p> <p>3 paragraph 400 and Table F9.</p> <p>4 A Yes.</p> <p>5 Q So do I understand correctly that based on 02:10:43</p> <p>6 your econometric study, consumers would pay \$21 more</p> <p>7 for a phone that had the speed benefits indicated by</p> <p>8 the Linpack test by the engineers than they would</p> <p>9 for a noninfringing Android phone?</p> <p>10 A Yes. 02:10:59</p> <p>11 Q And you also used your enhanced model to</p> <p>12 calculate willingness to pay for applications; is</p> <p>13 that right?</p> <p>14 A That's correct.</p> <p>15 Q And if we look at paragraph 401, you found 02:11:07</p> <p>16 that limiting the number of applications available</p> <p>17 on the phone between 6,000 and 40,000 results in a</p> <p>18 reduction in willingness to pay between, on average,</p> <p>19 12 and \$22; is that right?</p> <p>20 A That's correct. 02:11:28</p> <p>21 Q So the willingness to pay for the assumed</p> <p>22 incremental increase in applications is between 12</p> <p>23 and \$22 per average-priced Android phone?</p> <p>24 A Correct.</p> <p>25 Q Now, if you go to Page 41 of your 02:11:42</p> <p style="text-align: right;">199</p>	<p>1 assessments. 02:12:55</p> <p>2 Q Okay.</p> <p>3 And you say:</p> <p>4 "Google would presumably have</p> <p>5 been willing to pay up to this 02:12:59</p> <p>6 amount for the in-suit patents and</p> <p>7 copyrights."</p> <p>8 A Yes.</p> <p>9 Q When you say, "Google presumably would</p> <p>10 have been willing to pay up to this amount," does 02:13:07</p> <p>11 "this amount" refer to the per-unit willingness to</p> <p>12 pay?</p> <p>13 A No.</p> <p>14 Q What does that refer --</p> <p>15 A This is a general comment that -- I use 02:13:14</p> <p>16 the econometrics since it's been excluded from</p> <p>17 market share for the simple proposition that the</p> <p>18 consumers valued this. There's a lot of talk in</p> <p>19 the record about they value speed, they value</p> <p>20 applications, and so on, and what the econometrics 02:13:31</p> <p>21 shows is they do.</p> <p>22 And, therefore, that Google, if it had</p> <p>23 understood that in 2006, would have put a high</p> <p>24 value, relatively high value on the intellectual</p> <p>25 property associated with achieving those gains. 02:13:48</p> <p style="text-align: right;">201</p>

202

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<p>1 [REDACTED] [REDACTED] 2 [REDACTED] 3 [REDACTED] 4 [REDACTED] 5 [REDACTED] 6 [REDACTED] 7 [REDACTED] 8 [REDACTED] 9 Q Now, if you were to assume that Google did 10 not have good noninfringing alternatives to the APIs 02:19:59 11 or the '104 patent, and you also assume that the 12 willingness to pay calculations are accurate, would 13 that suggest to you that the reasonable royalty for 14 the '104 patent and for the copyrights would both be 15 substantially in excess of what you calculated on 02:20:19 16 Table 8? 17 MR. PURCELL: Object to the form. 18 THE WITNESS: I really don't think you can 19 go there, Mr. Norton. The -- the -- what -- the 20 reasonable -- I mean, the noninfringing substitutes 02:20:34 21 available to Google in 2006, as I've argued in 22 dismissing Dr. Leonard's arguments about this, are 23 embedded in the offer, so if I believe they agreed 24 to the February 2006 offer, that embeds and reflects 25 whatever noninfringing substitutes there are, and so 02:20:51</p> <p style="text-align: right;">206</p>	<p>1 to Android are, in fact, correctly allocated to 02:22:20 2 Android? 3 A Yes and no. I mean, we took the 4 expenses for what they were, and we talked about 5 the way -- or tried to analyze how Dr. Cox then 02:22:34 6 uses those -- how he accounts for those expenses, 7 whether he amortizes them, over what period of 8 time he amortizes them, and so forth. And I made 9 some criticisms about that, but we've not gotten 10 involved in sort of whether these numbers in the 02:22:51 11 Google reports are accurate. I mean, I have no 12 way of knowing. 13 Q So you have no way of determining whether 14 or not the actual expense items that show up on the 15 P&L really are properly allocated to Android as 02:23:02 16 opposed to some other Google business operation? 17 A I do not. 18 Q So you just take that one on faith? 19 A Well, I don't take it on faith. I 20 assume that, following Dr. Cox, these numbers are 02:23:14 21 right, and if at trial -- I've been careful here; 22 it's an important point, which is -- what I've 23 tried to do is set forth methodologies for doing 24 these things with an understanding that those 25 methodologies are implemented with a set of 02:23:29</p> <p style="text-align: right;">208</p>
<p>1 you can't, then, make a side argument about that. 02:20:55 2 That's in the number that you're going to allocate 3 in this, okay? 4 Then, this goes to the issue about what is 5 an accurate way of apportioning that to these 02:21:06 6 particular patents and, you know, the difference 7 between the willingness to pay may sort of cause you 8 to think hard about whether or not the group and 9 value method got it right or was in the ballpark. 10 But beyond that, I don't think it helps. There's no 02:21:25 11 way for me to go from the willingness to pay to an 12 adjustment that I ought to make to the group and 13 value apportionment. 14 BY MR. NORTON: 15 Q So I want to talk for a moment on 02:21:46 16 infringer's profits. 17 Now, for infringer's profits, you have 18 deducted from Android U.S. revenues its expenses 19 through September 2011, correct? 20 A Yes. 02:22:04 21 Q And the evidence you have for those 22 expenses is Dr. Cox's report; is that correct? 23 A That's correct. 24 Q And have you done anything to ascertain 25 whether or not the expenses that Dr. Cox allocated 02:22:15</p> <p style="text-align: right;">207</p>	<p>1 assumptions, some of which are empirical 02:23:31 2 assumptions, in which The Court will have better 3 evidence at the date of trial than any of the 4 experts had at the point at which they were 5 implemented. But that the methodology will work, 02:23:42 6 whatever -- whatever the evidence is at trial. 7 So if the evidence is these costs are 8 less, or they should have been amortized 9 differently, then the methodology would have -- you 10 know, I would tell the jury, if asked, that the 02:23:57 11 jury needs to make those adjustments, or I would 12 make the adjustments for the jury and present the 13 numbers to them. 14 Q Now, on the topic of infringer's profits, 15 Mr. Purcell asked you some questions about double 02:24:13 16 recovery, and I want to approach it a little bit 17 differently. 18 When you cal- -- well, when you calculated 19 the reasonable royalty for copyright, that is based 20 on the 2000 net present value of Sun's anticipated 02:24:31 21 profits from the 2006 transaction, correct? 22 A Using Google's estimates of Sun's 23 success, yes. 24 Q Google's estimates of the number of units, 25 correct? 02:24:49</p> <p style="text-align: right;">209</p>

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<p>1 A Yes. That was poorly put. It's not 02:24:49</p> <p>2 Google's estimates of Sun's success; it's Google's</p> <p>3 estimates of Android's success.</p> <p>4 Q But the number that you are using is based</p> <p>5 on Sun's anticipated profits? 02:24:58</p> <p>6 A Yes.</p> <p>7 Q So to the extent that the copyright</p> <p>8 statute says that a Plaintiff is entitled to actual</p> <p>9 damages --</p> <p>10 I'll ask you to assume that the copyright 02:25:16</p> <p>11 statute provides that a Plaintiff is entitled to</p> <p>12 actual damages which can be measured as a lost</p> <p>13 license or as a lost profit, and in addition to</p> <p>14 actual damages, the Plaintiff is entitled to</p> <p>15 infringer's profits to the extent not already 02:25:31</p> <p>16 counted in the actual damages.</p> <p>17 A Okay.</p> <p>18 Q So with that understanding of actual</p> <p>19 damages, is there any overlap between the</p> <p>20 infringer's profits and the copyright royalty? 02:25:46</p> <p>21 A I don't know.</p> <p>22 MR. COOPER: I'm going to retrospectively</p> <p>23 object to the question as to form.</p> <p>24 MR. NORTON: I understand. I'll stick</p> <p>25 with that, though. 02:26:48</p> <p style="text-align: right;">210</p>	<p>1 Is that much clearer? 02:29:54</p> <p>2 A Yes.</p> <p>3 MR. COOPER: And you're asking him to</p> <p>4 assume that's the statement of the law?</p> <p>5 MR. NORTON: I am. 02:29:59</p> <p>6 MR. COOPER: Okay.</p> <p>7 BY MR. NORTON:</p> <p>8 Q And then am I correct in understanding</p> <p>9 that the copyright royalty that you have calculated</p> <p>10 is based on anticipated profits that Sun would have 02:30:08</p> <p>11 received from a hypothetical license?</p> <p>12 A Correct.</p> <p>13 Q Okay.</p> <p>14 In that case, and assuming that my</p> <p>15 statement of the law is correct, is there any 02:30:21</p> <p>16 overlap between your measure of the copyright,</p> <p>17 reasonable royalty and your measure of the copyright</p> <p>18 infringer's profits?</p> <p>19 A May I ask you a clarifying question?</p> <p>20 Q Okay. 02:30:40</p> <p>21 A I mean, is what you're getting at here</p> <p>22 that there could have been a difference between</p> <p>23 the expected profits to which was used in</p> <p>24 calculation of the reasonable royalty and the</p> <p>25 actual profits that history produced? Is it a 02:30:49</p> <p style="text-align: right;">212</p>
<p>1 THE WITNESS: Just a second. Can I talk 02:27:01</p> <p>2 to my attorney off the record?</p> <p>3 MR. NORTON: Let's go off the record.</p> <p>4 THE VIDEOGRAPHER: The time is 2:27 p.m.</p> <p>5 and we'll go off the record. 02:27:07</p> <p>6 (Discussion held off record.)</p> <p>7 THE VIDEOGRAPHER: The time is now</p> <p>8 2:29 p.m. and we're back on the record.</p> <p>9 MR. COOPER: Counsel, I've had an</p> <p>10 opportunity to confer with Dr. Kearl while we were 02:29:08</p> <p>11 off the record, and it's apparent that Dr. Kearl</p> <p>12 didn't understand your question.</p> <p>13 Can I ask you to rephrase it, please?</p> <p>14 MR. NORTON: Of course. I'm sorry, that</p> <p>15 was confusing. 02:29:17</p> <p>16 BY MR. NORTON:</p> <p>17 Q So assume that the copyright statute</p> <p>18 identifies actual damages and infringer's profits,</p> <p>19 and actual damages can be measured one of two ways:</p> <p>20 Either lost profits or a lost license fee, a 02:29:32</p> <p>21 hypothetical license. And the copyright statute</p> <p>22 further provides that the Plaintiff is entitled to</p> <p>23 actual damages, plus infringer's profits to the</p> <p>24 extent the infringer's profits are not taken into</p> <p>25 consideration in the actual damages. 02:29:50</p> <p style="text-align: right;">211</p>	<p>1 distinction between the forecast and actual? 02:30:56</p> <p>2 Q Well, I guess my point is just --</p> <p>3 I don't believe my question depends on</p> <p>4 that distinction, so obviously, my question is still</p> <p>5 not clear. 02:31:07</p> <p>6 If actual damages can be measured --</p> <p>7 Is there anything in your --</p> <p>8 Let me ask it this way: Is there anything</p> <p>9 in your measure of the copyright reasonable royalty</p> <p>10 that factors in Google's infringer's profits? 02:31:20</p> <p>11 A I don't think so.</p> <p>12 Q Okay.</p> <p>13 A Because the reasonable royalty is based</p> <p>14 on the -- it starts, as we've discussed a number</p> <p>15 of times, on the 2006 license and the implied 02:32:50</p> <p>16 royalty that comes out of that, that included, not</p> <p>17 infringement, but compliant Android.</p> <p>18 So the projected profits don't include</p> <p>19 whatever incremental profits, if any, whichever</p> <p>20 they go, negative or positive, that might have 02:33:11</p> <p>21 occurred because you have a -- an Android machine</p> <p>22 that is not -- or an Android product that is not</p> <p>23 compliant.</p> <p>24 Q Okay.</p> <p>25 Now, you talked a little bit about 02:33:29</p> <p style="text-align: right;">213</p>

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1	Professor Cockburn's group and value approach?	02:33:30	1	you sort of pick a bunch of independent things, or	02:36:07
2	A Yes.		2	think of it as a conglomerate, a firm that has a	
3	Q And when you were referring to Professor		3	roll-up of a bunch of independent firms, or you can	
4	Cockburn's group and value approach, you're		4	think about a portfolio as a set of things that are	
5	referring to the version of the group and value	02:33:36	5	designed to do one or two, to move forward the	02:36:15
6	approach that was permitted by Judge Alsup which		6	technology, and you might think of that in terms of	
7	uses, in part, Professor Cockburn's lower bound,		7	a vertically integrated firm that has divisions that	
8	correct?		8	are productive because they're integrated as opposed	
9	A That's correct.		9	to a conglomerate that has divisions that are	
10	Q Have you looked at Professor Cockburn's	02:33:47	10	independent of one another.	02:36:32
11	group and value upper bound approach?		11	Portfolios are used loosely to describe	
12	A No.		12	both of those, right, and typically, it's used to	
13	Q Have you made --		13	describe the latter, that is, a group of unrelated	
14	Did you ever reach any opinions as to the		14	patents that happen to be assembled by somebody who	
15	reasonableness of the upper bound approach?	02:33:55	15	then is sort of licensing the patents for whatever	02:36:41
16	A No. We simply waited for The Court to		16	use in the portfolio.	
17	decide on this matter.		17	If you think that the Java ME portfolio is	
18	Q Do you have an opinion as to whether the		18	not that, but it's a portfolio of patents that are	
19	upper bound approach is a reasonable version of		19	designed to advance a particular technology, they	
20	group and value?	02:34:10	20	have a particular technology, then it is a bit	02:36:58
21	A There are things that go different		21	unlike the portfolio studies that Professor Cockburn	
22	directions here. One is as indicated in my		22	and Dr. Leonard appeal to in that they -- they're	
23	report. Professor Cockburn uses three studies,		23	unlikely to be those kind of portfolios, right?	
24	picks one that seemed to be out of the norm for		24	And the difference here is that you could	
25	the academic studies in this area, and I provide	02:34:31	25	imagine that there are alternative paths through	02:37:16
214			216		
1	some evidence from a paper by John Putnam that	02:34:35	1	this portfolio that are substitutes for one another.	02:37:20
2	surveys the license renewal literature and the		2	So, for example, suppose -- to make this simple,	
3	estimates of the value function for the -- for		3	suppose there are 500 patents in the Java ME	
4	the -- for the annual literature that suggest that		4	portfolio, each of which is -- and there are five	
5	the top 5 percent gets a lower fraction than does	02:34:54	5	paths, so you only need 100 patents to implement the	02:37:34
6	Professor Cockburn. So this is the difference		6	technology. You just need one of them. Then, in	
7	between 77-point something and my 53.3 percent.		7	fact, one -- you don't take one five-hundredths to	
8	Okay?		8	value this; you take one one-hundredth to value	
9	So in that sense, I think he's not -- my		9	this, and the mean value is higher, as well, because	
10	criticism here is that he could have used the	02:35:15	10	it's the mean of 100. It's the portfolio divided by	02:37:52
11	universe of studies in this area, and for whatever		11	100; not the portfolio divided by 500.	
12	reason, picked a subset, and the better thing would		12	So there is this problem with the group	
13	be to use the universal studies in the area, in		13	and value approach that I have, and I allude to it	
14	which case, you come to a smaller, smaller		14	in several different places about this portfolio	
15	fraction.	02:35:30	15	likely being composed of substitutes and	02:38:05
16	But there is a bit of a problem in all of		16	complements. There's no evidence in this matter. I	
17	this, and here I think Dr. Leonard gets this quite		17	mean, people talk loosely about their substitutes	
18	wrong, and we have these synthetic portfolios --		18	here, but I've seen nothing in the record that	
19	let me back up. This is a long answer. Witnesses		19	allows me or Professor Cockburn or Dr. Leonard, or	
20	are not supposed to give long answers, but my	02:35:49	20	anybody else, to tease out that, but it is a	02:38:22
21	lawyer is a nice guy.		21	potential problem, because it treats these 500	
22	MR. COOPER: We're in a special situation.		22	patents as if they were 500 independent patents, and	
23	THE WITNESS: Let me be clear about how		23	there are unlikely to have been 500 independent	
24	I'm thinking about portfolio. You can think about a		24	patents. And to the degree there are substitutes in	
25	portfolio as sort of like a stock portfolio, which	02:36:03	25	there, this means that the group and value method	02:38:35
215			217		

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<p>1 probably undervalues and maybe substantially 02:38:37 2 undervalues the top 22 patents. 3 BY MR. NORTON: 4 Q Thank you, that was actually quite 5 helpful. 02:38:57 6 Once you decide to use a group and value 7 approach, do you have an opinion as to whether it's 8 more appropriate to assume that the '104 patent is 9 of average value with the other patents in the top 10 22 or is above average value in the group of the top 02:39:11 11 22? 12 MR. PURCELL: Object to form. 13 THE WITNESS: I have no evidence one way 14 or the other. There is this citation evidence. 15 There were disputes about the citation evidence. I 02:39:22 16 suppose if the citation evidence had been more fully 17 developed and account had been made for the fact 18 that some of the patents are shorter-lived and some 19 of the patents had been renewed, perhaps citation. 20 But the record here is really messy and, therefore, 02:39:36 21 I don't think that there's anything for me to rely 22 on that would suggest to me that this -- the 23 '104 was anything other than a group of 22 and, 24 therefore, your best guess, if you're uninformed -- 25 the uninformed prior here is the mean. 02:39:55</p> <p style="text-align: right;">218</p>	<p>1 A I need to check on something here. I'm 02:41:12 2 blanking on one thing, and it goes to a question 3 that Mr. Purcell asked me, as well, so let me 4 clarify. 5 I don't know if we -- if the denominator 02:41:42 6 here is Apple plus Android or the denominator is 7 Apple plus Android, plus all of the other operating 8 systems, including the -- the -- 9 MR. COOPER: BlackBerry? 10 THE WITNESS: -- BlackBerry. Including 02:41:59 11 BlackBerry. If it's that, then I have accounted for 12 the BlackBerry issue, because I'm just using their 13 market share of this larger pie, in an answer to an 14 earlier question today. And in this case, I'm just 15 using the actual shares. 02:42:18 16 MR. NORTON: Let me mark Exhibit 479. 17 [sic] 18 (Deposition Exhibit 579 marked 19 for identification.) 20 [REDACTED] 21 [REDACTED] 22 [REDACTED] 23 [REDACTED] 24 [REDACTED] 25 [REDACTED] 02:43:07</p> <p style="text-align: right;">220</p>
<p>1 BY MR. NORTON: 02:40:00 2 [REDACTED] 3 [REDACTED] 4 [REDACTED] 5 [REDACTED] 6 [REDACTED] 7 [REDACTED] 8 [REDACTED] 9 [REDACTED] 10 [REDACTED] 11 [REDACTED] 12 [REDACTED] 13 [REDACTED] 14 [REDACTED] 15 [REDACTED] 16 [REDACTED] 17 [REDACTED] 18 [REDACTED] 19 [REDACTED] 20 [REDACTED] 21 [REDACTED] 22 [REDACTED] 23 [REDACTED] 24 [REDACTED] 25 [REDACTED]</p> <p style="text-align: right;">219</p>	<p>1 [REDACTED] 2 [REDACTED] 3 [REDACTED] 4 [REDACTED] 5 [REDACTED] 6 [REDACTED] 7 [REDACTED] 8 [REDACTED] 9 Q But, in fact, the number that you have in 10 row 8 is exactly the same as Dr. Cox's Exhibit 4B, 02:43:23 11 row G, and what I've marked as Exhibit 479 I'll 12 represent to you is Dr. Cox's 4B with highlighting 13 and two additional lines added for explanation. But 14 the A through G lines are the same as they appeared 15 in Dr. Cox's report. 02:43:47 16 A You're correct. 17 Q I'm sorry, what is correct? 18 A You are correct. 19 Q You've only said it twice, but I've made 20 you say it four times. 02:44:13 21 To do your Table 10, would it be correct 22 to use the line that appears immediately beneath on 23 G on Exhibit 479 to determine the percent of lost 24 Java ME profits attributable to Android? 25 A Yes. 02:44:39</p> <p style="text-align: right;">221</p>

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<p>1 Q So that would -- 02:44:40</p> <p>2 If you were to plug those numbers in to</p> <p>3 your Table 10, that would increase the total Java ME</p> <p>4 lost profits, assuming everything else stays the</p> <p>5 same? 02:44:50</p> <p>6 A I think so. I think you're correct.</p> <p>7 Q You could go back and rerun those numbers,</p> <p>8 right?</p> <p>9 A Yes.</p> <p>10 Q I'm not asking you to do that right now, 02:45:02</p> <p>11 but you could make those adjustments and generate</p> <p>12 new Java ME lost profits and --</p> <p>13 A Yeah, let me -- let me answer more</p> <p>14 cautiously, if you'll permit, which is, it appears</p> <p>15 I've made a mistake here, and to the degree I've 02:45:13</p> <p>16 made a mistake, I will fix the mistake, but I'll</p> <p>17 need to go back and look and see whether or not</p> <p>18 the actual Excel sheets and the things we did this</p> <p>19 with, in fact, reflect the mistake and whether it</p> <p>20 was a mistake. 02:45:30</p> <p>21 So if it's a mistake, I will notify both</p> <p>22 parties that I've made an error in this case, of</p> <p>23 course.</p> <p>24 [REDACTED]</p> <p>25 [REDACTED] 02:45:43</p> <p>222</p>	<p>1 STATE OF CALIFORNIA)</p> <p>2) :ss</p> <p>3 COUNTY OF SAN FRANCISCO)</p> <p>4 I, KELLI COMBS, CSR NO. 7705, a Certified Shorthand</p> <p>5 Reporter of the State of California, do hereby certify:</p> <p>6 That the foregoing proceedings were taken before me</p> <p>7 at the time and place herein set forth; that any</p> <p>8 witnesses in the foregoing proceedings, prior to</p> <p>9 testifying, were placed under oath; that the verbatim</p> <p>10 record of the proceedings was made by me using machine</p> <p>11 shorthand which was thereafter transcribed under my</p> <p>12 direction; further, that the foregoing is an accurate</p> <p>13 transcription thereof.</p> <p>14 I further certify that I am neither financially</p> <p>15 interested in the action nor a relative or employee of</p> <p>16 any attorney of any of the parties.</p> <p>17 IN WITNESS WHEREOF, I have this date subscribed my</p> <p>18 name.</p> <p>19</p> <p>20 Dated: March 27, 2012</p> <p>21</p> <p>22</p> <p>23</p> <p>24 KELLI COMBS, CSR NO. 7705</p> <p>25</p> <p>224</p>
<p>1 [REDACTED]</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED] 02:46:16</p> <p>11 MR. NORTON: Thank you very much. I</p> <p>12 appreciate your time today. I have nothing further.</p> <p>13 THE VIDEOGRAPHER: This marks the end of</p> <p>14 Disk 3 of 3 and concludes the deposition of James</p> <p>15 Kearl. The time is now 2:46 p.m. and we're going 02:46:28</p> <p>16 off the record.</p> <p>17 Thank you, Counsel.</p> <p>18 (Time noted: 2:46 p.m.)</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p> <p>223</p>	<p>1 INDEX</p> <p>2 MARCH 26, 2012</p> <p>3</p> <p>4 JAMES KEARL</p> <p>5 EXAMINATION PAGE</p> <p>6</p> <p>7 (BY MR. NORTON) 7, 192</p> <p>8 (BY MR. PURCELL) 134</p> <p>9</p> <p>10</p> <p>11</p> <p>12</p> <p>13</p> <p>14</p> <p>15</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p> <p>225</p>

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EXHIBIT H

**Contact Report**

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User Fields

User 1 User 9
 User 2 User 10
 User 3 User 11
 User 4 User 12
 User 5 User 13
 User 6 User 14
 User 7 User 15
 User 8

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All Phone Ext. Home Address 1
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 Asst. Title Admin. Assist. 3rd Title VM Architec:
 2nd Contact Brian Swetland Spouse
 Asst. Phone [REDACTED] Ext. 3rd Phone Ext.
 2nd Title Lead VM Architect Referred By
 2nd Phone Ext. Web Site

Status

Last Reach ID/Status
 Last Meeting Last Results
 Last Attempt Public/Private Public

Notes/History

Date Range: All Dates
 Note 11/12/07 5:44 PM Google today released the Android S/W SDK.
 Note 5/26/06 7:53 PM After many meetings incl. Alan Brenner, it was agreed that the two companies cannot come to a meeting of minds on how to work together re CDC-HI and open source.
 Note 8/19/05 7:52 PM Andy is interested in CDC-HI for wireless devices.
 Note 8/5/05 10:45 PM Andy informed me today that the co. by which Android Research was acquired was Google. Vineet and I w/meet w/Andy and Tim Lindholm at on Fri. 8/19 at Google.

Created 2/26/2011 at 11:34 AM

1

OAGOOGL0100029446

UNITED STATES DISTRICT COURT
 NORTHERN DISTRICT OF CALIFORNIA

TRIAL EXHIBIT 2720

CASE NO. 10-03561 WHA

DATE ENTERED _____

BY _____

DEPUTY CLERK